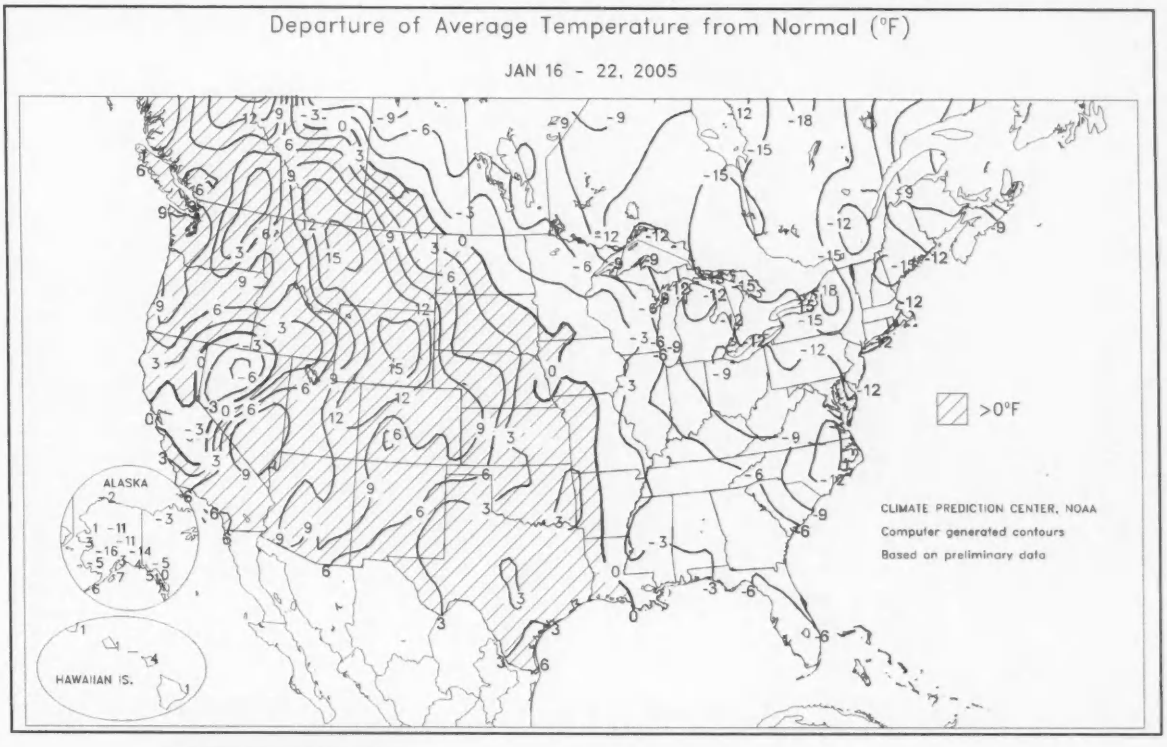
Volume 92, No. 04 http://www.usda.gov/oce/waob/jawf/wwcb.html January 25, 2005

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS

January 16 - 22, 2005

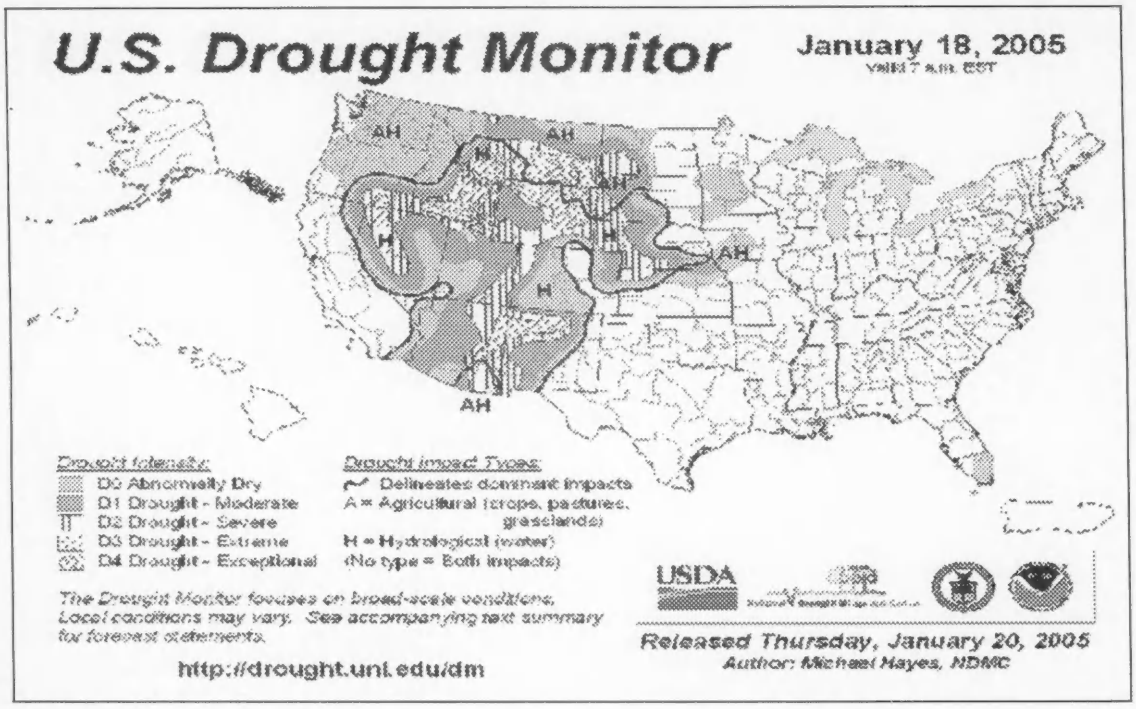
Highlights provided by USDA/WAOB

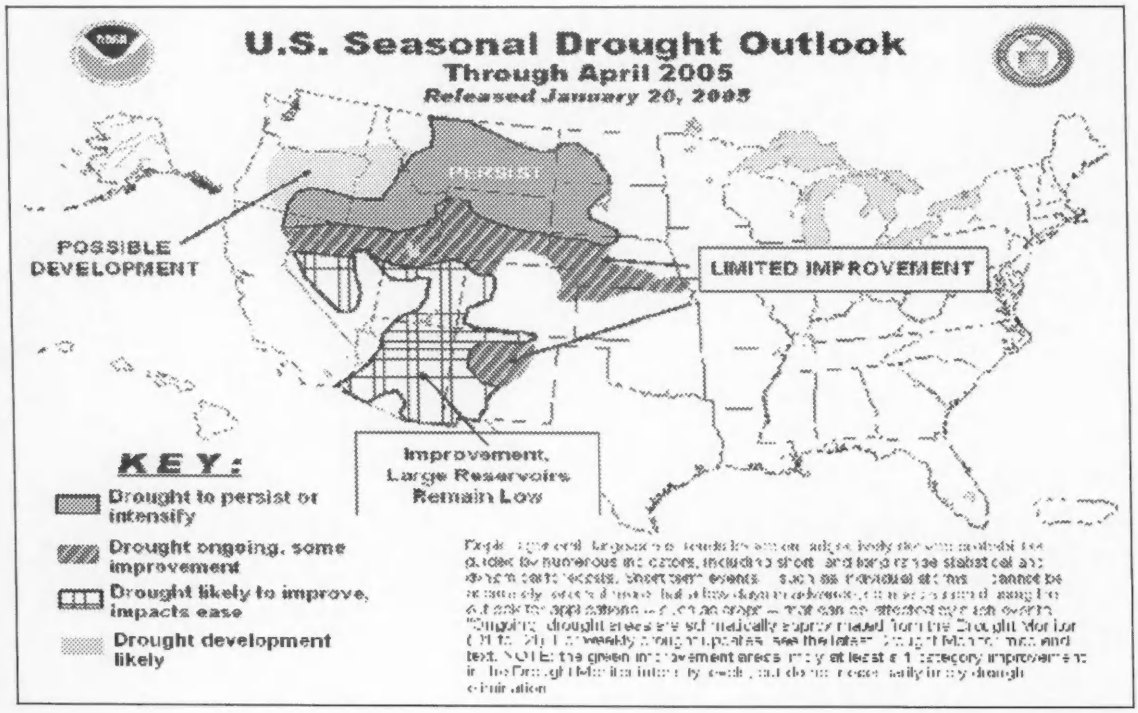
Warm, favorably dry weather prevailed in **southern California**, while heavy rain and melting snow caused flooding in **western Washington**. Elsewhere in the **West**, dry weather in the **Great Basin** and the **Southwest** contrasted with heavy rain and snow in the **northern Rockies**. Record warmth in the **Northwest** boosted weekly temperatures more than 10°F above normal in some locations. Warm weather also prevailed on the **northern High Plains**, where temperatures averaged as much as 15 to 20°F above normal. In **Montana** and elsewhere on the **northern Plains**, temperatures as high as 60°F melted winter wheat's protective snow cover. Across the remainder of the **Plains**, unusually mild weather provided

(Continued on page 5)

Contents

January 18 Drought Monitor &
U.S. Seasonal Drought Outlook 2
Agricultural Weather Data Compiled by
USDA's Stoneville Field Office 3
Extreme Maximum & Minimum Temperature Maps . . 4
Total Precipitation Map 5
Western Snowpack and Precipitation Update 6
National Weather Data for Selected Cities 7
National Agricultural Summary & Snow Cover Map . 10
International Weather and Crop Summary &
December Temperature/Precipitation Maps 11
Subscription Information 28


U.S. Drought Monitor
January 18, 2005
Valid 7 a.m. EST
AH
H
Drought Intensity:
D0 Abnormally Dry
D1 Drought - Moderate
D2 Drought - Severe
D3 Drought - Extreme
D4 Drought - Exceptional
Drought Impact Types:
Delineates dominant impacts
A = Agricultural (crops, pastures, grasslands)
H = Hydrological (water)
(No type = Both impacts)
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.
http://drought.unl.edu/dm
USDA
Released Thursday, January 20, 2005
Author: Michael Hayes, NDMC


U.S. Seasonal Drought Outlook
Through April 2005
Released January 20, 2005
POSSIBLE DEVELOPMENT
LIMITED IMPROVEMENT
Improvement, Large Reservoirs Remain Low
KEY:
Drought to persist or intensify
Drought ongoing, some improvement
Drought likely to improve, impacts ease
Drought development likely

Agricultural Weather Data Compiled by USDA's Stoneville Field Office

Weather Data for the Week Ending January 22, 2005

Data provided by the Mississippi State Delta Research and Extension Center (DREC) and the University of Missouri Extension Commercial Agriculture Program.

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							4-INCH SOIL TEMP, °F		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MISSISSIPPI																				
ND	TUNICA 1W	46	26	61	20	36	-	0.00	-	0.00	-	-	-	-	-	-	0	6	0	0
	LYON	49	27	64	21	38	-	0.00	-	0.00	7.01	-	3.73	-	-	-	0	6	0	0
	VANCE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PERTHSHIRE	49	28	65	22	39	-	0.00	-	0.00	9.30	-	5.02	-	-	-	0	6	0	0
	SCOTT	51	29	66	23	40	-	0.00	-	0.00	-	-	3.27	-	-	-	0	5	0	0
NE	VERONA	51	26	69	20	39	-	0.00	-	0.00	11.07	-	3.24	-	49	38	0	6	0	0
	STARKVILLE	52	28	70	20	40	-1	0.00	-1.33	0.00	6.00	65	1.80	44	-	-	0	6	0	0
EC	MACON	54	28	73	23	41	-	0.00	-	0.00	6.09	-	2.52	-	49	42	0	6	0	0
SD	STONEVILLE [x]	50	31	70	23	40	-1	0.00	-1.21	0.00	9.36	100	3.36	86	49	40	0	4	0	0
	INDIANOLA 1S [*]	51	29	68	23	40	-	0.00	-	0.00	8.00	-	3.24	-	-	-	0	6	0	0
	INVERNESS 5E	50	29	67	22	40	-	0.00	-	0.00	7.53	-	3.16	-	49	40	0	5	0	0
	SIDON	53	30	69	22	41	-	0.00	-	0.00	8.75	-	3.07	-	-	-	0	5	0	0
	N. ISSAQUENA	52	31	69	24	42	-	0.00	-	0.00	7.74	-	3.31	-	-	-	0	5	0	0
	SILVER CITY	53	31	71	24	42	-	0.00	-	0.00	8.17	-	3.13	-	-	-	0	5	0	0
	ONWARD	53	30	70	23	42	-	0.00	-	0.00	7.00	-	2.59	-	-	-	0	5	0	0
MISSOURI																				
NW	CORNING	35	17	51	-4	25	1	0.29	0.11	0.28	0.86	46	0.55	84	-	-	0	7	2	0
	ALBANY	34	15	52	-1	23	-2	0.06	-0.15	0.04	1.30	65	0.99	152	31	30	0	7	3	0
	ST. JOSEPH	36	18	55	2	25	-1	0.02	-0.12	0.02	1.74	92	1.29	271	-	-	0	7	1	0
NC	LINNEUS	35	15	53	3	24	-1	0.00	-0.15	0.00	2.74	134	1.92	350	31	30	0	7	0	0
	BRUNSWICK	36	17	56	2	25	-1	0.00	-0.34	0.00	2.97	112	2.31	257	31	30	0	7	0	0
NE	NOVELTY	33	14	49	3	23	-2	0.01	-0.29	0.01	3.58	132	2.62	315	32	32	0	7	1	0
	MONROE CITY	34	15	51	3	24	-2	0.01	-0.36	0.01	6.01	198	4.40	479	33	32	0	7	1	0
WC	GREEN RIDGE	38	19	58	5	28	1	0.00	-0.36	0.00	6.19	198	5.26	554	32	31	0	6	0	0
C	AUXVASSE	35	16	56	3	24	-3	0.02	-0.34	0.01	6.76	199	5.55	543	35	34	0	7	2	0
	SANBORN FIELD	36	18	58	7	27	-2	0.01	-0.45	0.01	6.97	209	5.87	545	33	33	0	7	1	0
	COLUMBIA	36	17	56	4	26	-2	0.00	-0.46	0.00	7.02	211	5.92	554	-	-	0	7	0	0
	VERSAILLES	38	20	60	9	28	-3	0.00	-0.43	0.00	7.65	221	6.81	619	33	32	0	7	0	0
EC	COOK STATION	40	17	65	5	28	-4	0.09	-0.44	0.08	6.47	136	5.52	372	38	36	0	6	2	0
SW	LAMAR	42	23	61	11	31	0	0.00	-0.49	0.00	6.30	163	4.71	402	35	32	0	6	0	0
SE	DELTA	38	21	55	11	29	-3	0.00	-0.93	0.00	5.61	89	4.14	202	33	31	0	6	0	0
	CHARLESTON	39	22	57	14	30	-2	0.00	-0.60	0.00	7.71	126	5.11	247	36	34	0	6	0	0
	GLENNONVILLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CLARKTON	41	22	59	14	31	-2	0.00	-0.70	0.00	7.51	127	4.46	217	38	33	0	7	0	0
	PORTAGEVILLE DC	41	24	59	14	32	-2	0.00	-0.82	0.00	8.25	125	4.90	214	41	34	0	6	0	0
	PORTAGEVILLE LF	41	23	59	14	32	-1	0.00	-0.81	0.00	7.11	107	3.83	167	39	33	0	6	0	0
	STEELE	42	24	60	16	33	-1	0.00	-1.02	0.00	6.93	95	3.79	153	39	35	0	6	0	0
	CARDWELL	42	24	59	15	33	-2	0.00	-0.99	0.00	7.36	104	4.31	176	41	37	0	5	0	0

Compiled by USDA/OCE/WAOB's Stoneville Field Office.
[*] Beasley Lake
[x] Based on 1971-2000 normals.
- Sufficient data not available.
ND = Northern Delta; NE = Northeastern Mississippi; EC = East Central Mississippi; SD = Southern Delta
NW = Northwest; NC = North Central; NE = Northeast; WC = West Central; C = Central; EC = East Central; SW = Southwest; SE = Southeast.

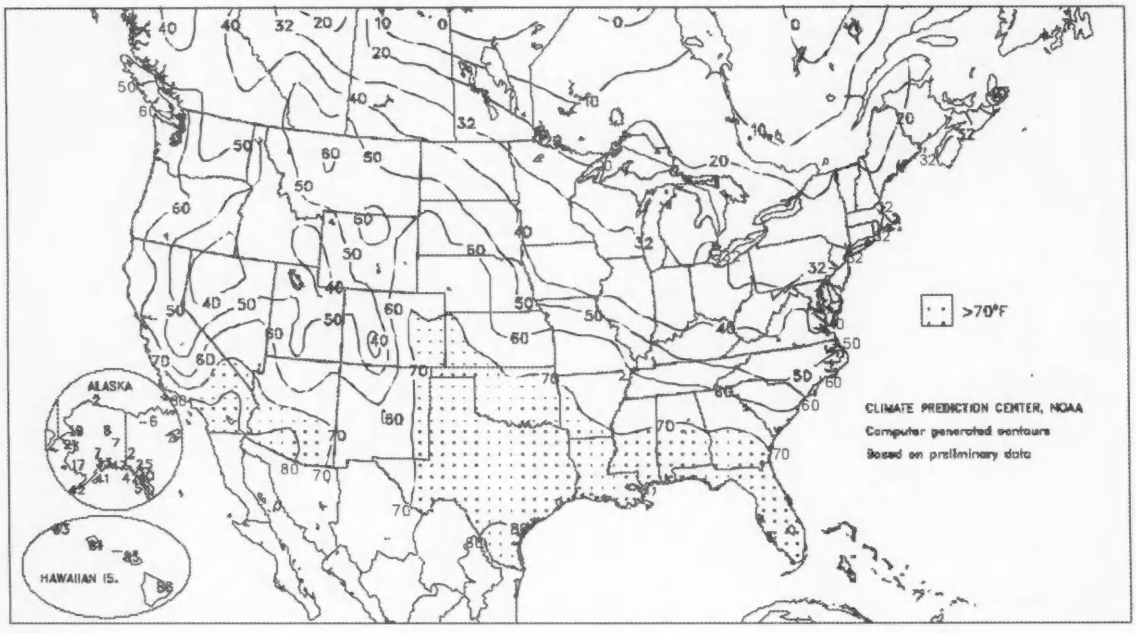
Weather and Crop Summary for the Mississippi Delta: Weekly temperatures averaged near normal, as chilly air trailing two cold fronts offset a brief, midweek warm spell. No precipitation was recorded across the Delta. Some of the first burn-down applications for cool-season weeds began in anticipation of the upcoming corn-planting season. The Mississippi River crest passed Memphis, TN, and by week's end reached Helena, AR. Meanwhile, the river climbed above flood stage as far south as Baton Rouge, LA. Record-high stages for this early in the year were noted at some Delta locations, and much of the Delta cropland between the Mississippi River levees was flooded.

Note: For information on the weather stations in the Missouri Bootheel and recently added stations elsewhere in the State, please visit:

http://agebb.missouri.edu/weather/stations/index.htm

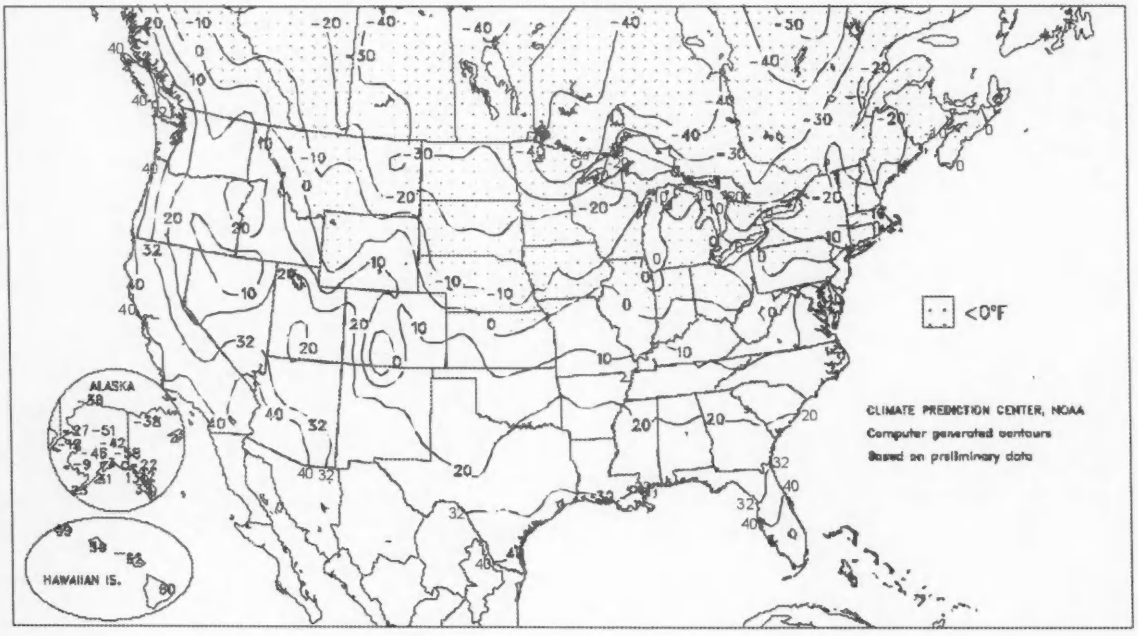
Extreme Maximum Temperature (°F)

JAN 16 - 22, 2005



Extreme Minimum Temperature (°F)

JAN 16 - 22, 2005

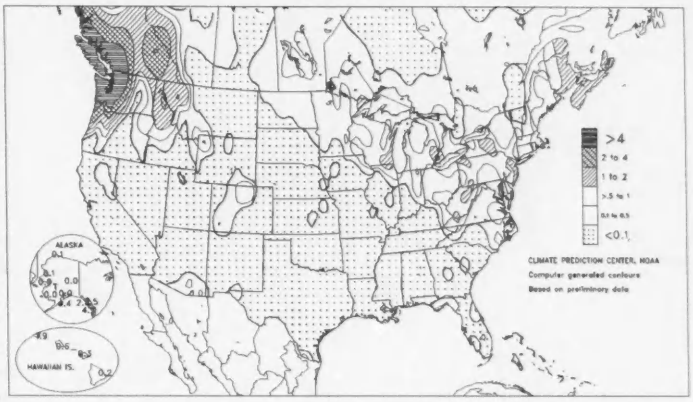


(Continued from front cover)

favorable conditions for overwintering wheat but reduced the crop's winter hardiness. Meanwhile, a pair of "**Canadian** clipper" storm systems crossed the **Midwest** and **Northeast** during the early- to midweek period, resulting in snow, wind, and below-normal temperatures. A third, stronger "clipper" swept across the **upper Midwestern, Great Lakes, and Northeastern States** at week's end, generating heavy snow, high winds, and bitter cold. Blizzard conditions engulfed parts of the **Northeast**, especially along the **New England coast**, where as much as 2 to 3 feet of snow fell and peak wind gusts ranged from 50 to 80 m.p.h. Weekly temperatures generally ranged from 10 to 15°F below normal from the **lower Great Lakes region into the Mid-Atlantic and Northeastern States**, combining with snowy, windy weather to increase stress on livestock. Cool conditions also affected the **Southeast**, while dry weather and near-normal temperatures prevailed from the **Delta westward**. Due to runoff from earlier precipitation, river flooding continued in the **lower portions of the Ohio and Mississippi Valleys**. Heaving soils remained a concern in winter wheat areas of the **Ohio Valley**, where saturated fields were subjected to several freeze-thaw cycles.

Total Precipitation (Inches)

JAN 16 - 22, 2005



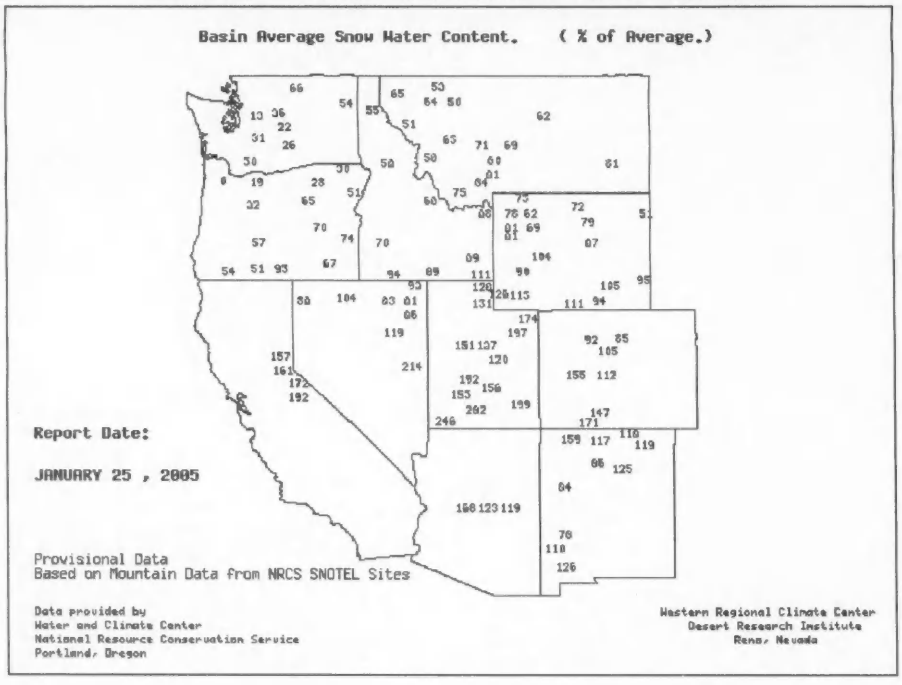
Bitterly cold weather lingered across the **northern Plains** early in the week, when **Miles City, MT** (-27°F on January 16), collected its fourth consecutive daily-record low. In **North Dakota**, **Grand Forks** noted consecutive daily-record lows (-34 and -37°F) on January 16-17. However, the core of the coldest weather shifted eastward into the **Great Lakes States**, where **Embarrass, MN**, measured lows of -48 and -54°F on January 16 and 17, respectively. Low temperatures fell below 0°F in **LaCrosse, WI**, on 6 consecutive days from January 13-18, the longest such streak there since December 17-25, 2000. A few days later, bitterly cold conditions were confined to the **Northeast**, where **Massena, NY**, closed the week with consecutive daily-record lows (-27 and -29°F) on January 21-22. **Bangor, ME**, also tallied a low of -29°F on January 22, breaking its monthly record (previously, -28°F on January 3, 1999; January 19, 1971; and January 22, 1934).

Meanwhile, record warmth replaced the early-week chill on the **northern and central Plains**. On January 20, daily-record highs included 70°F in **Denver, CO**, and 66°F in **Cheyenne, WY. Cheyenne's** maximum also tied its monthly record, previously set with a high of 66°F on January 26, 1982. A day later, record highs for January 21 on the **southern Plains** included 79°F in **Dallas-Ft. Worth, TX**, and 77°F in **Oklahoma City, OK.** Farther west, more than 50 daily-record highs were set during the week in the **West Coast States**. In addition, monthly record highs were established on January 18 in locations such as **Portland, OR** (66°F; previously, 63°F on January 18, 1986), and **Vancouver, WA** (66°F; previously, 65°F on January 28, 1931). On January 19 in **southern California**, daily records included 91°F in **Santa Ana** and 87°F in **San Diego**.

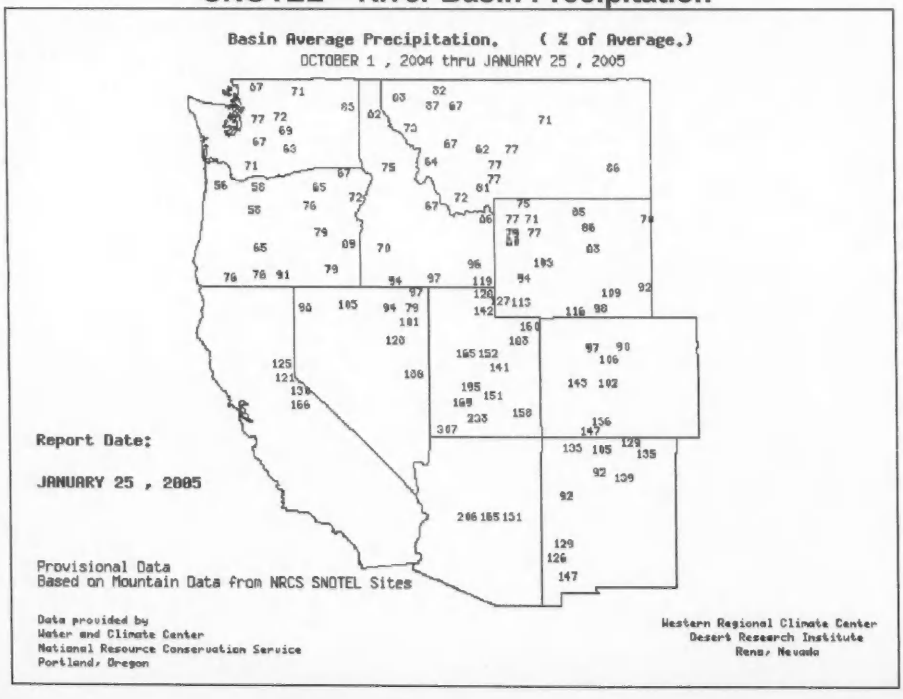
For much of the week, heavy precipitation was confined to the **Pacific Northwest**. On January 17, daily-record rainfall totals reached 4.54 inches in **Quillayute, WA**, and 2.11 inches in **Astoria, OR.** Another round of heavy rain arrived in **western Washington** on January 22, dropping another 4.36 inches in **Quillayute**. Farther east, snow showers downwind of the **Great Lakes** provided some daily-record snowfall totals, including 3.7 inches on January 17 in **South Bend, IN**, and 6.0 inches on January 19 in **Marquette, MI.** On January 20, heavy snow clipped **northern Maine**, where **Caribou** (11.1 inches) reported a daily-record total. Much more widespread snow developed on Friday in the **upper Midwest**, resulting in record totals for January 21 in **Rochester, MN** (8.5 inches), and **Wausau, WI** (4.5 inches). A day later, snowfall topped 1 foot in **Michigan** locations such as **Lansing** (12.6 inches), **Grand Rapids** (12.3 inches), and **Detroit** (12.2 inches). Through January 22, the month-to-date precipitation total of 4.37 inches in **Lansing, MI**, eclipsed its January 1880 standard of 4.35 inches. Farther east, January 22-23 snowfall in some major **East Coast** cities included 3.0 inches in **Washington, DC**; 12.8 inches in **Philadelphia, PA**; 13.8 inches in **New York's Central Park**; and 22.5 inches in **Boston, MA.** Wind gusts as high as 55 m.p.h. accompanied **Boston's** snow. Meanwhile, **Providence, RI**, netted its seventh-highest daily total on record (16.4 inches on January 23) en route to a storm-total snowfall of 23.4 inches. In addition, **Providence** reported a peak wind gust to 60 m.p.h. More details on the **Northeastern** blizzard will be provided in next week's summary.

Generally quiet weather prevailed in **Hawaii**, with scattered showers and near- to above-normal temperatures. Some of the heaviest rain fell on January 17-18, when 24-hour totals topped 2 inches at several locations on **Oahu** and **Molokai**. January 1-23 rainfall ranged from well above normal in **Kahului, Maui** (4.56 inches, or 161 percent of normal), to significantly below normal in **Hilo** (3.73 inches, or 51 percent), on the **Big Island**. Farther north, cold, mostly dry weather persisted across the **Alaskan mainland**, where weekly temperatures averaged as much as 16°F below normal. In contrast, mild, wet weather affected **southern Alaska**, where January 1-23 snowfall in **Juneau** totaled 35.4 inches (172 percent of normal). Most of **Juneau's** snow, 30.2 inches, fell in a 4-day period from January 16-19.

SNOTEL – River Basin Snow Water Content



SNOTEL – River Basin Precipitation


Basin Average Precipitation. (% of Average.)
OCTOBER 1 , 2004 thru JANUARY 25 , 2005
Report Date:
JANUARY 25 , 2005
Provisional Data
Based on Mountain Data from NRCS SNOTEL Sites
Data provided by
Water and Climate Center
National Resource Conservation Service
Portland, Oregon
Western Regional Climate Center
Desert Research Institute
Reno, Nevada

National Weather Data for Selected Cities

Weather Data for the Week Ending January 22, 2005

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	53	25	70	19	39	-3	0.00	-1.26	0.00	5.02	60	1.46	38	83	34	0	6	0	0
	HUNTSVILLE	49	23	63	17	36	-3	0.00	-1.24	0.00	9.73	102	2.05	52	81	50	0	6	0	0
	MOBILE	62	35	73	26	49	-1	0.00	-1.35	0.00	4.63	53	1.26	32	79	43	0	3	0	0
	MONTGOMERY	58	29	71	23	43	-3	0.01	-1.14	0.01	4.43	53	1.64	48	78	33	0	6	1	0
AK	ANCHORAGE	23	13	33	-3	18	2	0.00	-0.13	0.00	2.19	146	0.67	149	63	54	0	7	0	0
	BARROW	-11	-21	-2	-38	-16	-2	0.10	0.10	0.09	0.85	708	0.54	5400	81	76	0	7	2	0
	FAIRBANKS	-11	-31	7	-42	-21	-11	0.00	-0.11	0.00	1.91	169	1.15	295	***	***	0	7	0	0
	JUNEAU	29	21	40	12	25	0	3.46	2.42	0.88	14.42	163	3.75	108	96	91	0	6	7	4
	KODIAK	39	35	41	31	37	7	4.42	2.58	1.43	16.51	122	5.68	97	92	84	0	3	7	4
	NOME	17	1	21	-12	9	3	0.00	-0.19	0.00	1.64	101	0.30	49	70	50	0	7	0	0
AZ	FLAGSTAFF	51	23	55	15	37	7	0.00	-0.49	0.00	8.30	254	3.63	252	87	37	0	7	0	0
	PHOENIX	77	51	81	44	64	10	0.00	-0.17	0.00	2.90	193	1.34	231	67	42	0	0	0	0
	TUCSON	74	46	79	39	60	8	0.45	0.25	0.41	1.60	92	0.89	127	61	33	0	0	2	0
	YUMA	75	55	80	48	65	7	0.00	-0.06	0.00	1.35	201	0.45	180	62	44	0	0	0	0
AR	FORT SMITH	52	27	71	21	40	2	0.00	-0.52	0.00	6.11	121	4.62	278	78	39	0	6	0	0
	LITTLE ROCK	50	29	70	21	39	-1	0.01	-0.79	0.01	7.36	102	4.47	176	83	39	0	4	1	0
CA	BAKERSFIELD	49	42	53	38	46	-2	0.00	-0.27	0.00	3.86	238	2.57	329	97	89	0	0	0	0
	FRESNO	48	42	51	41	45	-1	0.00	-0.50	0.00	5.36	193	2.20	153	94	89	0	0	0	0
	LOS ANGELES	75	53	85	49	64	7	0.00	-0.70	0.00	13.13	350	6.64	339	70	50	0	0	0	0
	REDDING	58	40	63	37	49	3	0.13	-1.38	0.09	13.30	145	2.48	55	98	93	0	0	5	0
	SACRAMENTO	47	41	57	40	44	-2	0.00	-0.91	0.00	7.10	141	2.97	116	98	81	0	0	0	0
	SAN DIEGO	76	53	87	47	64	6	0.00	-0.52	0.00	8.67	304	4.66	303	73	42	0	0	0	0
	SAN FRANCISCO	55	44	57	43	50	0	0.00	-1.04	0.00	10.04	170	3.62	121	98	93	0	0	0	0
	STOCKTON	46	41	49	39	44	-2	0.01	-0.62	0.01	5.14	142	2.03	112	94	90	0	0	1	0
CO	ALAMOSA	41	3	47	-8	22	7	0.00	-0.04	0.00	0.58	121	0.31	207	88	73	0	7	0	0
	CO SPRINGS	53	24	68	15	38	10	0.00	-0.04	0.00	0.41	67	0.17	89	79	31	0	6	0	0
	DENVER INTL	54	25	70	7	40	12	0.00	-0.03	0.00	0.22	46	0.18	106	79	37	0	5	0	0
	GRAND JUNCTION	49	28	53	23	38	12	0.00	-0.12	0.00	1.52	162	1.31	312	86	64	0	7	0	0
	PUEBLO	57	18	72	9	38	9	0.00	-0.08	0.00	0.42	68	0.17	74	81	49	0	7	0	0
CT	BRIDGEPORT	26	11	32	2	18	-12	0.02	-0.82	0.02	6.61	108	3.50	132	58	40	0	7	1	0
	HARTFORD	19	2	27	-7	11	-15	0.13	-0.74	0.10	7.78	123	3.55	131	71	49	0	7	3	0
DC	WASHINGTON	30	19	38	14	25	-9	0.39	-0.32	0.34	6.07	113	3.01	131	67	41	0	7	2	0
DE	WILMINGTON	26	14	35	7	20	-11	0.81	0.05	0.79	6.30	108	3.43	139	78	41	0	7	3	1
FL	DAYTONA BEACH	62	42	73	37	52	-6	0.57	-0.14	0.43	4.80	98	2.56	116	91	55	0	0	2	0
	JACKSONVILLE	60	36	73	29	48	-5	0.07	-0.78	0.07	3.89	75	1.22	48	87	45	0	3	1	0
	KEY WEST	70	58	76	55	64	-6	0.00	-0.49	0.00	2.17	58	1.42	89	84	54	0	0	0	0
	MIAMI	71	52	77	49	62	-6	0.00	-0.41	0.00	1.81	53	1.30	105	98	57	0	0	0	0
	ORLANDO	65	45	74	40	55	-6	0.35	-0.20	0.35	5.90	148	4.14	246	90	59	0	0	1	0
	PENSACOLA	61	39	72	28	50	-2	0.00	-1.24	0.00	8.75	114	1.67	45	76	43	0	3	0	0
	TALLAHASSEE	61	35	74	23	48	-4	0.00	-1.23	0.00	4.76	60	1.13	30	76	42	0	3	0	0
	TAMPA	65	45	73	38	55	-6	0.08	-0.42	0.08	2.07	54	0.53	35	88	51	0	0	1	0
	WEST PALM	70	49	76	45	60	-6	0.04	-0.86	0.04	2.11	37	1.33	52	89	53	0	0	1	0
GA	ATHENS	49	26	66	16	38	-4	0.03	-1.04	0.03	4.54	65	1.74	54	70	46	0	6	1	0
	ATLANTA	51	26	67	19	39	-3	0.01	-1.17	0.01	6.43	89	1.59	46	68	47	0	6	1	0
	AUGUSTA	53	26	67	15	40	-5	0.01	-1.03	0.01	2.62	42	1.37	44	80	39	0	4	1	0
	COLUMBUS	57	29	70	25	43	-4	0.00	-1.07	0.00	4.09	53	1.54	46	74	28	0	5	0	0
	MACON	57	30	71	21	43	-2	0.02	-1.13	0.02	2.50	34	1.75	51	72	29	0	5	1	0
	SAVANNAH	55	33	69	23	44	-5	0.00	-0.91	0.00	2.47	44	0.70	25	76	39	0	3	0	0
HI	HILO	82	63	86	60	73	2	0.15	-2.13	0.14	14.79	86	3.76	55	82	66	0	0	2	0
	HONOLULU	79	69	81	59	74	1	0.64	0.05	0.60	8.34	175	2.38	124	89	79	0	0	2	1
	KAHULUI	81	69	83	62	75	3	0.28	-0.57	0.13	4.94	86	3.49	131	94	85	0	0	5	0
	LIHUE	79	67	83	59	73	1	1.89	0.87	1.14	16.79	207	7.34	220	91	82	0	0	3	2
ID	BOISE	39	30	46	27	34	4	0.08	-0.22	0.04	1.39	60	0.15	16	95	84	0	6	3	0
	LEWISTON	52	37	60	19	44	10	0.19	-0.06	0.15	1.22	67	0.36	47	71	62	0	2	2	0
	POCATELLO	34	18	37	11	26	1	0.04	-0.21	0.03	2.72	145	1.89	242	95	85	0	7	2	0
IL	CHICAGO/O'HARE	23	11	35	1	17	-5	0.92	0.56	0.46	5.22	144	4.07	339	78	60	0	7	5	0
	MOLINE	25	12	39	1	19	-2	0.10	-0.23	0.07	3.29	99	2.40	216	82	62	0	7	3	0
	PEORIA	26	12	38	1	19	-3	0.07	-0.23	0.03	5.48	160	4.08	398	86	58	0	7	3	0
	ROCKFORD	21	9	36	-5	15	-4	0.79	0.49	0.65	3.97	131	3.32	342	80	63	0	7	5	1
	SPRINGFIELD	29	13	39	1	21	-4	0.02	-0.31	0.01	6.82	179	5.39	489	81	60	0	7	2	0
IN	EVANSVILLE	35	19	49	9	27	-4	0.00	-0.64	0.00	7.01	127	4.70	235	82	63	0	7	0	0
	FORT WAYNE	22	8	36	-1	15	-8	0.52	0.08	0.19	7.85	186	5.18	360	86	65	0	7	6	0
	INDIANAPOLIS	25	10	35	-2	17	-9	0.14	-0.41	0.10	11.37	238	9.42	541	87	62	0	7	3	0
	SOUTH BEND	20	8	33	-4	14	-9	0.87	0.39	0.32	7.36	157	5.15	324	87	70	0	7	7	0
IA	BURLINGTON	29	13	39	3	21	-2	0.00	-0.28	0.00	3.63	120	2.53	275	90	57	0	7	0	0
	CEDAR RAPIDS	24	7	37	-11	16	-2	0.06	-0.16	0.04	1.93	89	0.98	142	92	66	0	7	2	0
	DES MOINES	28	10	38	-8	19	-1	0.07	-0.15	0.03	1.63	81	1.03	149	85	70	0	7	3	0
	DUBUQUE	21	8	37	-9	15	-2	0.30	0.02	0.23	3.09	121	2.00	230	81	69	0	7	3	0
	SIOUX CITY	31	9	46	-11	20	1	0.00	-0.12	0.00	0.51	48	0.39	95	84	76	0	7	0	0
	WATERLOO	25	5	38	-20	15	-1	0.19	0.02	0.14	1.91	116	1.38	260	83	70	0	7	3	0
KS	CONCORDIA	36	19	53	-5	28	2	0.01	-0.12	0.01	0.98	73	0.86	179	83	67	0	5	1	0
	DODGE CITY	49	23	70	12	36	6	0.06	-0.05	0.03	1.65	136	1.49	339	80	44	0	5	4	0
	GOODLAND	53	22	72	5	38	10	0.00	-0.08	0.00	0.29	41	0.10	32	81	54	0	6	0	0
	TOPEKA	39	20	59	3	30	3	0.00	-0.19	0.00	5.67	274	5.04	775	81	60	0	7	0	0

Based on 1971-2000 normals

*** Not Available

Weather Data for the Week Ending January 22, 2005

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL IN.	DEPARTURE FROM NORMAL	GREATEST 1 IN 24-HOUR, IN.	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	46	21	65	7	34	4	0.00	-0.15	0.00	2.87	146	2.57	415	92	66	0	7	0	0
KY	JACKSON	33	18	45	6	26	-8	0.47	-0.30	0.25	7.85	116	4.57	184	85	54	0	6	5	0
	LEXINGTON	31	16	40	6	24	-8	0.10	-0.62	0.10	7.00	109	3.62	151	85	67	0	7	1	0
	LOUISVILLE	33	19	40	10	26	-7	0.03	-0.69	0.02	10.05	168	4.46	193	79	48	0	6	2	0
	PADUCAH	38	20	57	11	29	-4	0.00	-0.76	0.00	8.73	130	5.41	232	87	48	0	7	0	0
LA	BATON ROUGE	62	37	75	27	50	0	0.03	-1.40	0.03	6.43	67	3.29	77	89	38	0	3	1	0
	LAKE CHARLES	64	40	75	30	52	1	0.02	-1.26	0.01	6.63	77	2.88	73	86	43	0	2	2	0
	NEW ORLEANS	62	42	75	33	52	0	0.29	-1.08	0.29	6.09	68	2.65	67	82	63	0	0	1	0
	SHREVEPORT	59	34	77	26	47	1	0.00	-1.03	0.00	5.11	66	2.33	73	83	37	0	3	0	0
ME	CARIBOU	6	-8	17	-18	-1	-10	0.31	-0.34	0.20	5.28	99	1.27	59	82	60	0	7	3	0
	PORTLAND	17	-1	26	-13	8	-13	0.50	-0.41	0.33	7.13	100	2.82	97	78	48	0	7	5	0
MD	BALTIMORE	28	17	37	12	23	-9	0.48	-0.29	0.40	6.31	108	3.37	136	72	45	0	7	2	0
MA	BOSTON	23	7	31	-2	15	-14	0.33	-0.55	0.20	6.63	102	2.97	108	75	44	0	7	4	0
	WORCESTER	17	2	23	-8	9	-14	0.49	-0.43	0.36	9.37	140	4.57	157	82	46	0	7	4	0
MI	ALPENA	13	-1	26	-8	6	-11	0.10	-0.28	0.05	3.56	115	1.66	132	86	64	0	7	4	0
	GRAND RAPIDS	18	7	31	0	12	-10	0.81	0.37	0.42	7.00	171	4.62	330	84	60	0	7	4	0
	HOUGHTON LAKE	13	-2	24	-12	5	-12	0.08	-0.27	0.05	4.85	169	3.07	274	82	66	0	7	4	0
	LANSING	17	5	29	-2	11	-10	0.67	0.32	0.34	6.78	209	4.94	457	81	67	0	7	4	0
	MUSKEGON	20	9	32	3	14	-9	0.67	0.18	0.27	6.27	149	2.98	190	83	71	0	7	6	0
	TRAVERSE CITY	17	3	27	-11	10	-11	0.10	-0.58	0.04	4.50	95	1.64	78	86	57	0	7	4	0
MN	DULUTH	13	-6	24	-28	3	-5	0.55	0.28	0.19	4.19	252	2.02	281	85	69	0	7	5	0
	INT'L FALLS	7	-16	19	-44	-5	-7	0.30	0.11	0.16	3.04	245	1.04	193	84	68	0	7	4	0
	MINNEAPOLIS	21	4	37	-12	12	-1	0.77	0.55	0.67	1.68	99	1.24	180	83	65	0	7	5	1
	ROCHESTER	20	4	35	-13	12	0	0.53	0.31	0.52	1.73	105	1.14	181	85	74	0	7	2	1
	ST. CLOUD	17	-5	37	-29	6	-2	0.73	0.56	0.61	2.21	186	1.75	350	87	66	0	7	4	1
MS	JACKSON	56	29	74	22	43	-2	0.00	-1.29	0.00	8.84	95	3.61	90	84	38	0	6	0	0
	MERIDIAN	58	28	73	22	43	-3	0.00	-1.35	0.00	6.09	64	1.93	47	87	43	0	6	0	0
	TUPELO	52	27	66	18	39	-1	0.00	-1.11	0.00	13.64	138	2.83	76	76	51	0	6	0	0
MO	COLUMBIA	35	17	57	3	26	-2	0.00	-0.37	0.00	6.79	188	5.81	505	89	60	0	7	0	0
	KANSAS CITY	37	19	59	3	28	1	0.00	-0.25	0.00	2.78	114	2.39	299	88	60	0	6	0	0
	SAINT LOUIS	34	17	54	4	26	-4	0.01	-0.46	0.01	10.59	244	8.82	596	79	65	0	7	1	0
	SPRINGFIELD	42	22	65	13	32	1	0.01	-0.45	0.01	7.71	168	6.51	462	78	60	0	6	1	0
MT	BILLINGS	46	27	56	-7	36	12	0.00	-0.17	0.00	0.51	41	0.26	46	73	51	0	4	0	0
	BUTTE	47	24	56	1	35	17	0.05	-0.06	0.05	0.45	51	0.08	23	87	52	0	5	1	0
	GLASGOW	29	3	45	-30	16	6	0.01	-0.05	0.01	0.74	123	0.15	65	89	74	0	7	1	0
	GREAT FALLS	50	27	60	-10	39	17	0.01	-0.13	0.01	0.59	51	0.16	33	74	47	0	4	1	0
	HAVRE	40	16	60	-25	28	14	0.02	-0.06	0.01	0.20	24	0.04	13	75	62	0	4	2	0
	KALISPELL	36	23	46	-7	29	8	0.63	0.32	0.30	2.15	81	0.94	92	94	88	0	6	4	0
	MISSOULA	34	21	46	3	28	4	0.30	0.08	0.17	1.18	62	0.64	86	94	90	0	7	4	0
NE	GRAND ISLAND	34	16	55	-10	25	3	0.01	-0.10	0.01	0.82	81	0.75	214	87	74	0	7	1	0
	LINCOLN	33	10	48	-18	21	-1	0.00	-0.14	0.00	1.47	109	1.04	212	91	73	0	7	0	0
	NORFOLK	33	11	59	-11	22	2	0.00	-0.11	0.00	0.54	54	0.39	111	84	71	0	7	0	0
	NORTH PLATTE	43	16	67	-10	30	7	0.01	-0.07	0.01	0.49	74	0.42	162	93	53	0	7	1	0
	OMAHA	31	11	47	-10	21	-1	0.00	-0.17	0.00	0.84	58	0.50	96	86	74	0	7	0	0
	SCOTTSBLUFF	50	21	67	-1	35	10	0.00	-0.11	0.00	0.87	96	0.81	231	82	54	0	7	0	0
	VALENTINE	41	12	63	-21	27	6	0.01	-0.05	0.01	0.67	134	0.66	388	85	71	0	7	1	0
NV	ELY	50	22	60	21	36	11	0.00	-0.17	0.00	1.47	147	0.93	186	88	67	0	7	0	0
	LAS VEGAS	67	45	71	41	56	9	0.00	-0.13	0.00	3.70	487	1.60	444	87	45	0	0	0	0
	RENO	34	24	41	21	29	-5	0.00	-0.23	0.00	3.29	211	1.58	232	98	93	0	7	0	0
	WINNEMUCCA	31	16	36	6	23	-7	0.03	-0.14	0.01	1.55	112	0.99	171	94	85	0	7	3	0
NH	CONCORD	15	-3	25	-15	6	-14	0.29	-0.37	0.15	6.38	127	2.63	127	78	48	0	7	3	0
NJ	NEWARK	25	12	31	4	18	-13	0.56	-0.35	0.48	7.05	110	3.72	131	67	41	0	7	4	0
NM	ALBUQUERQUE	57	31	60	27	44	8	0.00	-0.09	0.00	1.06	131	0.76	238	63	30	0	5	0	0
NY	ALBANY	14	-1	26	-10	7	-15	0.21	-0.34	0.18	5.83	133	3.13	181	86	52	0	7	3	0
	BINGHAMTON	13	-3	21	-13	5	-16	0.14	-0.43	0.07	7.36	154	3.21	182	84	68	0	7	5	0
	BUFFALO	18	4	29	-4	11	-13	0.66	-0.03	0.25	8.00	132	3.01	134	82	56	0	7	5	0
	ROCHESTER	17	2	26	-10	10	-14	1.02	0.50	0.30	5.69	130	2.70	165	87	66	0	7	7	0
	SYRACUSE	16	-2	27	-14	7	-15	0.41	-0.17	0.17	6.50	132	2.70	148	86	58	0	7	6	0
NC	ASHEVILLE	41	20	53	11	31	-5	0.00	-0.93	0.00	4.98	81	1.54	55	72	48	0	7	0	0
	CHARLOTTE	40	23	48	15	32	-10	0.00	-0.91	0.00	3.86	65	1.12	40	68	41	0	6	0	0
	GREENSBORO	35	23	44	14	29	-9	0.09	-0.71	0.05	4.14	75	1.29	52	74	47	0	7	3	0
	HATTERAS	42	30	55	21	37	-9	0.06	-1.28	0.05	3.07	35	0.37	9	78	56	0	5	2	0
	RALEIGH	36	23	43	13	29	-11	0.25	-0.69	0.10	3.52	60	2.04	73	74	50	0	7	4	0
	WILMINGTON	45	24	65	14	35	-11	0.14	-0.90	0.10	2.56	37	0.87	27	89	44	0	6	2	0
ND	BISMARCK	24	0	45	-27	12	2	0.23	0.15	0.15	0.80	86	0.42	162	81	74	0	7	4	0
	DICKINSON	35	7	52	-21	21	7	0.00	-0.07	0.00	0.23	43	0.15	79	84	56	0	7	0	0
	FARGO	12	-6	37	-28	3	-3	0.50	0.33	0.41	2.14	196	1.13	217	86	70	0	7	4	0
	GRAND FORKS	10	-10	36	-37	0	-5	0.49	0.35	0.33	1.87	191	1.00	233	88	69	0	7	4	0
	JAMESTOWN	16	-4	40	-23	6	-2	0.39	0.25	0.36	0.70	83	0.54	135	92	74	0	7	2	0
	WILLISTON	26	-2	43	-33	12	4	0.16	0.05	0.06	1.02	111	0.52	149	85	77	0	7	5	0
OH	AKRON-CANTON	20	8	29	1	14	-11	0.36	-0.19	0.12	7.82	165	5.42	310	84	69	0	7	5	0
	CINCINNATI	27	14	35	3	20	-9	0.34	-0.29	0.32	9.19	172	6.40	311	78	62	0	7	3	0
	CLEVELAND	21	12	31	4	16	-9	1.17	0.62	0.50	10.30	211	5.83	335	79	58	0	7	5	1
	COLUMBUS	24	11	33	2	18	-10	0.45	-0.10	0.15	12.09	259	8.73	502	79	65	0	7	4	0
	DAYTON	23	8	32	-2	15	-11	0.30	-0.26	0.20	10.48	214	8.91	490	88	65	0	7	3	0
	MANSFIELD	19	6	30	-6	13	-11	0.20	-0.38	0.14	7.59	149	4.58	248	92	63	0	7	3	0

Based on 1971-2000 normals

*** Not Available

Weather Data for the Week Ending January 22, 2005

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	20	8	32	-1	14	-10	0.00	-0.41	0.00	5.63	142	3.55	267	81	65	0	7	0	0
	YOUNGSTOWN	20	7	28	1	13	-12	0.59	0.08	0.27	9.47	206	5.85	357	87	74	0	7	5	0
OK	OKLAHOMA CITY	55	26	77	15	40	4	0.00	-0.25	0.00	2.22	79	1.72	185	83	38	0	5	0	0
	TULSA	51	24	71	13	38	2	0.00	-0.33	0.00	4.12	116	3.24	292	81	51	0	4	0	0
OR	ASTORIA	57	46	66	38	52	10	3.17	0.99	1.91	12.76	74	5.52	81	95	87	0	0	5	2
	BURNS	40	20	47	11	30	5	0.00	-0.25	0.00	2.39	113	0.59	73	91	84	0	6	0	0
	EUGENE	60	41	67	33	50	10	0.17	-1.57	0.13	5.45	40	1.34	25	96	85	0	0	2	0
	MEDFORD	47	37	51	33	42	3	0.05	-0.50	0.01	5.55	120	1.42	82	99	91	0	0	5	0
	PENDLETON	52	33	63	14	43	9	0.05	-0.28	0.02	0.99	40	0.34	35	87	71	0	3	3	0
	PORTLAND	52	40	66	28	46	6	0.75	-0.38	0.39	5.41	58	1.50	42	95	86	0	2	5	0
	SALEM	57	42	64	31	49	9	0.25	-1.06	0.13	4.99	47	1.10	27	95	88	0	1	3	0
PA	ALLENTOWN	20	9	31	3	15	-12	0.15	-0.65	0.15	8.13	139	4.28	173	75	58	0	7	1	0
	ERIE	20	10	29	4	15	-12	0.96	0.43	0.63	10.79	195	4.97	276	77	66	0	7	5	1
	MIDDLETOWN	26	15	32	9	21	-7	0.29	-0.34	0.21	7.66	148	4.29	222	78	42	0	7	3	0
	PHILADELPHIA	26	15	33	7	20	-12	0.62	-0.17	0.58	6.84	118	3.67	147	65	43	0	7	2	1
	PITTSBURGH	24	10	30	1	17	-10	0.16	-0.45	0.10	7.61	160	5.00	265	83	56	0	7	3	0
	WILKES-BARRE	20	2	30	-7	11	-15	0.50	-0.05	0.42	8.64	204	5.25	313	83	47	0	7	3	0
	WILLIAMSPORT	21	8	29	0	14	-11	0.23	-0.42	0.15	8.51	175	4.35	225	73	53	0	7	3	0
RI	PROVIDENCE	25	9	30	-2	17	-12	0.70	-0.29	0.62	8.94	124	4.04	131	71	47	0	7	4	1
SC	BEAUFORT	53	33	64	23	43	-5	0.05	-0.89	0.05	2.84	47	0.84	29	82	32	0	3	1	0
	CHARLESTON	51	30	65	21	41	-7	0.03	-0.90	0.03	2.21	36	1.16	40	84	38	0	4	1	0
	COLUMBIA	49	27	58	14	38	-6	0.01	-1.06	0.01	2.46	37	1.24	38	67	36	0	5	1	0
	GREENVILLE	44	24	54	18	34	-7	0.01	-0.98	0.01	7.48	108	0.93	30	75	42	0	6	1	0
SD	ABERDEEN	23	0	44	-30	12	1	0.21	0.12	0.09	0.90	127	0.57	173	87	81	0	7	4	0
	HURON	27	4	47	-22	16	2	0.00	-0.11	0.00	0.38	54	0.17	55	91	73	0	7	0	0
	RAPID CITY	43	14	66	-13	28	6	0.03	-0.03	0.01	0.65	103	0.57	248	83	45	0	5	3	0
	SIOUX FALLS	25	5	40	-18	15	1	0.00	-0.11	0.00	0.56	66	0.45	136	86	78	0	7	0	0
TN	BRISTOL	38	19	47	8	29	-5	0.18	-0.62	0.17	5.33	91	2.30	94	83	47	0	6	2	0
	CHATTANOOGA	48	24	62	18	36	-3	0.00	-1.24	0.00	8.67	101	2.07	55	72	46	0	6	0	0
	KNOXVILLE	42	22	52	12	32	-5	0.01	-1.02	0.01	7.44	96	1.87	57	78	44	0	6	1	0
	MEMPHIS	48	29	63	20	39	-1	0.00	-0.92	0.00	8.76	102	4.40	149	75	36	0	5	0	0
	NASHVILLE	45	21	58	13	33	-4	0.02	-0.86	0.01	9.49	129	3.56	127	79	45	0	7	1	0
TX	ABILENE	59	33	75	20	46	3	0.00	-0.19	0.00	1.05	54	0.32	48	78	55	0	3	0	0
	AMARILLO	52	26	72	18	39	3	0.00	-0.12	0.00	1.55	148	1.07	243	84	44	0	6	0	0
	AUSTIN	63	37	75	25	50	0	0.00	-0.39	0.00	1.07	28	0.74	55	79	54	0	2	0	0
	BEAUMONT	65	40	76	32	53	1	0.00	-1.29	0.00	4.34	46	1.49	36	92	42	0	2	0	0
	BROWNSVILLE	76	55	81	45	66	7	0.01	-0.30	0.01	1.95	99	0.48	56	91	52	0	0	1	0
	CORPUS CHRISTI	71	48	83	38	60	4	0.04	-0.29	0.04	0.65	23	0.17	16	90	64	0	0	1	0
	DEL RIO	63	41	75	32	52	1	0.01	-0.10	0.01	0.49	46	0.09	29	87	62	0	2	1	0
	EL PASO	63	36	65	30	49	4	0.07	-0.01	0.07	0.68	64	0.32	107	77	35	0	2	1	0
	FORT WORTH	58	32	79	22	45	1	0.00	-0.37	0.00	3.37	86	2.72	200	79	42	0	4	0	0
	GALVESTON	64	48	77	40	56	0	0.00	-0.94	0.00	3.54	55	0.99	34	89	56	0	0	0	0
	HOUSTON	65	42	75	33	53	1	0.00	-0.83	0.00	3.56	57	1.61	62	84	58	0	0	0	0
	LUBBOCK	54	25	75	18	39	1	0.00	-0.09	0.00	1.61	169	0.92	329	86	60	0	7	0	0
	MIDLAND	57	29	71	20	43	0	0.00	-0.11	0.00	0.13	13	0.02	6	81	52	0	4	0	0
	SAN ANGELO	60	32	75	19	46	1	0.00	-0.17	0.00	0.38	26	0.00	0	83	60	0	2	0	0
	SAN ANTONIO	64	43	76	29	53	3	0.00	-0.36	0.00	0.56	18	0.48	42	86	42	0	1	0	0
	VICTORIA	67	43	76	31	55	2	0.01	-0.53	0.01	3.44	82	1.53	89	92	67	0	1	1	0
	WACO	61	35	77	26	48	2	0.00	-0.39	0.00	3.04	75	1.74	133	80	53	0	3	0	0
	WICHITA FALLS	55	27	76	20	41	1	0.00	-0.22	0.00	1.85	75	1.18	151	81	50	0	5	0	0
UT	SALT LAKE CITY	41	29	50	24	35	6	0.01	-0.29	0.01	1.50	69	0.98	105	94	74	0	6	1	0
VT	BURLINGTON	10	-6	22	-17	2	-16	0.10	-0.40	0.04	5.01	134	1.76	115	82	56	0	7	3	0
VA	LYNCHBURG	33	17	41	7	25	-9	0.32	-0.48	0.16	5.63	99	3.22	130	74	46	0	7	4	0
	NORFOLK	35	23	41	16	29	-11	0.39	-0.52	0.34	4.19	72	1.78	64	86	53	0	6	4	0
	RICHMOND	32	18	39	13	25	-11	0.44	-0.35	0.30	5.02	89	2.65	104	81	53	0	7	4	0
	ROANOKE	35	21	42	10	28	-8	0.29	-0.45	0.13	3.76	74	1.63	73	69	54	0	6	4	0
	WASH/DULLES	29	16	37	11	23	-9	0.33	-0.36	0.28	5.67	108	2.66	123	73	43	0	7	2	0
WA	OLYMPIA	56	46	64	32	51	13	3.93	2.22	2.10	12.44	95	7.12	135	96	87	0	1	6	2
	QUILLAYUTE	58	50	69	44	54	13	13.44	10.37	4.70	27.22	113	15.09	158	95	87	0	0	7	5
	SEATTLE-TACOMA	56	47	62	32	51	10	3.37	2.21	2.37	8.21	89	3.84	107	97	89	0	1	7	1
	SPOKANE	41	30	48	12	36	8	0.51	0.12	0.26	2.54	72	1.20	95	96	84	0	2	3	0
	YAKIMA	39	26	52	13	32	2	0.14	-0.11	0.12	2.19	100	1.06	129	93	89	0	6	3	0
WV	BECKLEY	27	12	40	2	19	-11	0.53	-0.19	0.29	4.51	85	2.39	107	85	64	0	7	4	0
	CHARLESTON	31	16	39	6	23	-10	0.68	-0.06	0.32	5.64	101	2.73	122	82	57	0	7	4	0
	ELKINS	30	9	43	1	20	-8	0.57	-0.20	0.31	5.43	93	2.90	121	82	51	0	7	6	0
	HUNTINGTON	30	16	39	7	23	-9	0.54	-0.17	0.41	5.96	106	3.32	148	83	55	0	7	3	0
WI	EAU CLAIRE	21	2	34	-13	11	-1	0.28	0.04	0.21	1.51	88	0.60	87	81	54	0	7	4	0
	GREEN BAY	18	3	27	-6	10	-5	0.51	0.23	0.23	3.77	169	1.51	184	82	55	0	7	5	0
	LA CROSSE	23	4	38	-10	13	-3	0.76	0.48	0.52	2.68	133	1.39	178	86	58	0	7	5	1
	MADISON	21	7	35	-6	14	-3	0.60	0.32	0.33	3.66	148	2.20	272	76	62	0	7	5	0
	MILWAUKEE	21	11	32	0	16	-4	0.80	0.39	0.49	4.76	138	3.23	260	76	59	0	7	5	0
WY	CASPER	48	26	57	-10	37	15	0.15	0.04	0.15	0.34	35	0.25	71	70	55	0	4	1	0
	CHEYENNE	50	28	66	9	39	13	0.00	-0.08	0.00	0.29	40	0.16	62	70	39	0	4	0	0
	LANDER	42	19	51	-3	30	10	0.00	-0.11	0.00	1.09	114	0.90	257	78	60	0	7	0	0
	SHERIDAN	47	23	61	-11	35	14	0.02	-0.15	0.02	0.34	28	0.20	38	73	59	0	4	1	0

Based on 1971-2000 normals *** Not Available

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

National Agricultural Summary

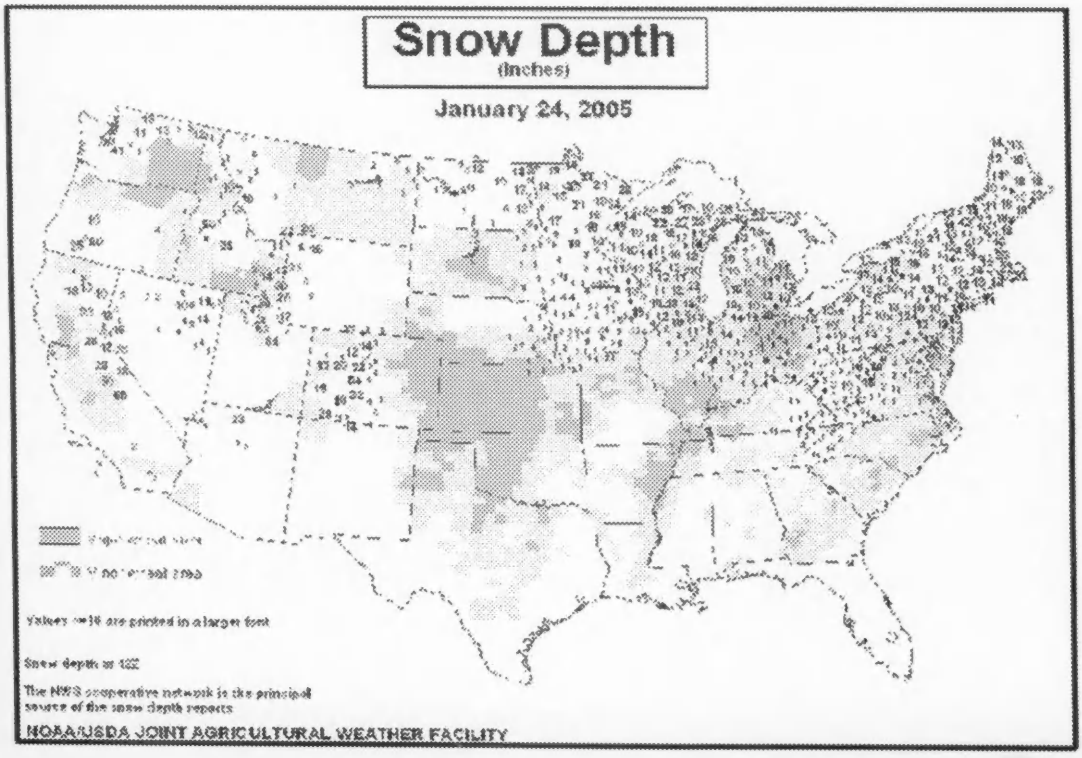
January 17 - 23, 2005

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

In a reversal from the previous week, temperatures were above normal in the western half of the Nation but below normal from the Mississippi River eastward. Dry, unseasonably warm weather in the northern and central Great Plains caused rapid depletion of snow cover, leaving winter wheat vulnerable to extreme cold. In the Pacific Northwest and northern Rocky Mountains, snow cover also melted rapidly with moderate to heavy rainfall and above-normal temperatures. Meanwhile, an Arctic storm system brought snow and freezing rain to the northern Corn Belt, Ohio Valley, and northern and middle Atlantic Coast States. Elsewhere, conditions were mostly cool and dry in the central Corn Belt and Southeast, while warm, dry weather prevailed in the Southwest and southern Great Plains.

In California, dry conditions allowed fieldwork to resume in some areas following heavy rainfall the previous week. Ice mark and rind puff were showing on some Navel oranges, reducing the quality of the crop. Arizona growers harvested a variety of citrus and vegetable crops. Warm, dry conditions in Texas were favorable for cotton harvesting, land preparation, and winter wheat growth. In Georgia, the return of cold weather caused some damage to ornamentals and fruit trees that bloomed in the warm conditions of the previous week.



International Weather and Crop Summary

January 16 - 22, 2005

International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

FSU-WESTERN: The fifth consecutive week of unseasonably mild weather continued to provide favorable overwintering conditions for winter grains.

EUROPE: Widespread precipitation and unseasonably mild weather maintained favorable overwintering conditions for dormant winter crops, except in southern Spain and Portugal where dry weather further reduced moisture supplies for winter grains.

EASTERN ASIA: Cold weather continued, albeit warmer than last week, on the North China Plain, while showers boosted soil moisture for winter rapeseed in the south.

SOUTHEAST ASIA: Seasonable showers maintained moisture supplies for rice in Indonesia.

NORTHWESTERN AFRICA: Dry weather continued in Morocco, while showers increased soil moisture in Algeria and Tunisia.

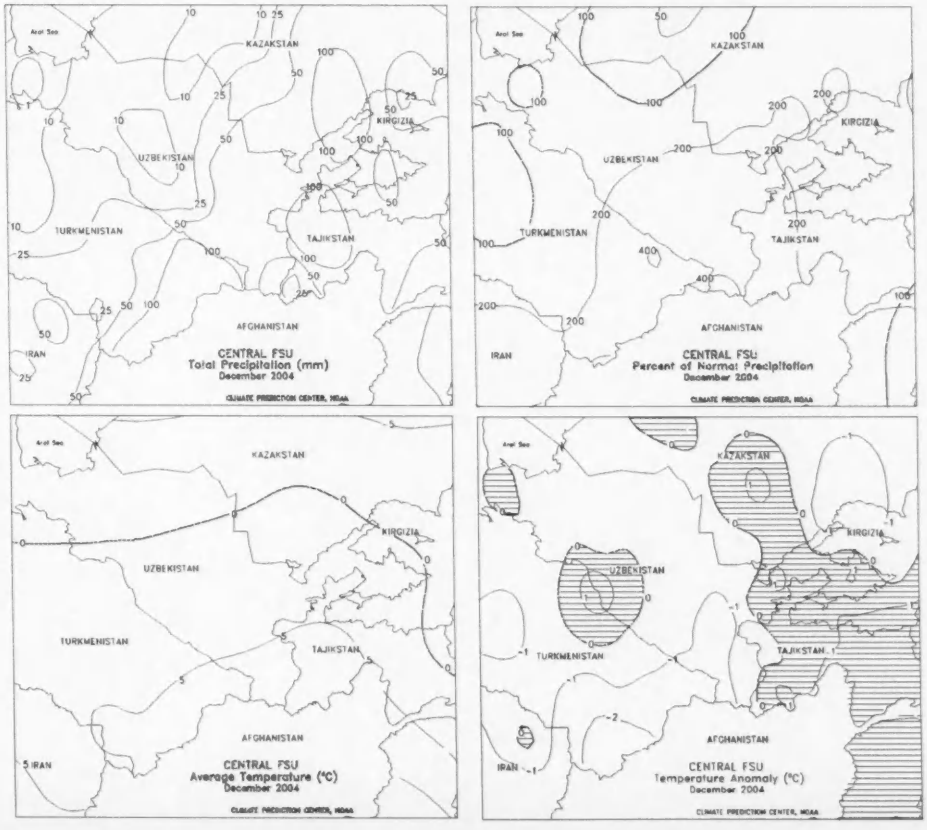
SOUTH AFRICA: Highly beneficial rain continued across the corn belt as crops approached the reproductive phase of development.

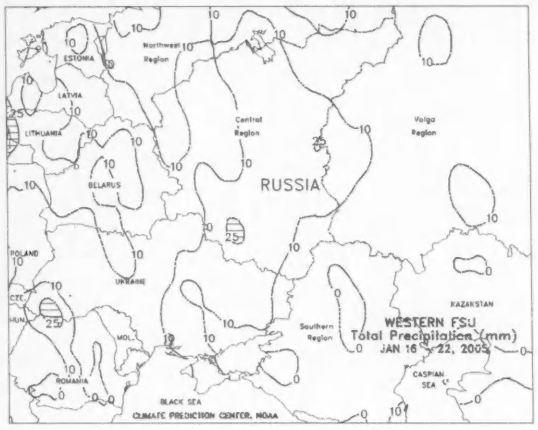
AUSTRALIA: Showers returned to eastern Australia, benefiting vegetative to early reproductive summer crops.

MIDDLE EAST: Beneficial snow fell in wheat areas of western Iran, but mild weather further eroded snow cover in Turkey.

BRAZIL: Unseasonable dryness returned to soybean areas of Rio Grande do Sul, but conditions remained generally favorable for soybeans elsewhere.

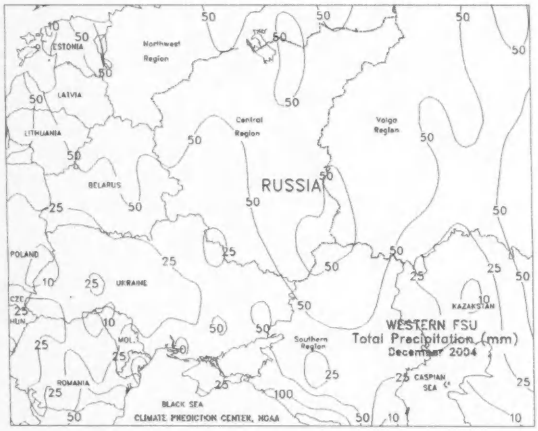
ARGENTINA: Sunny skies promoted summer crop development throughout the region.

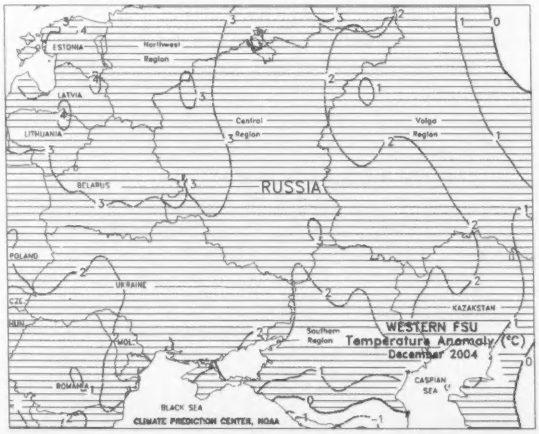


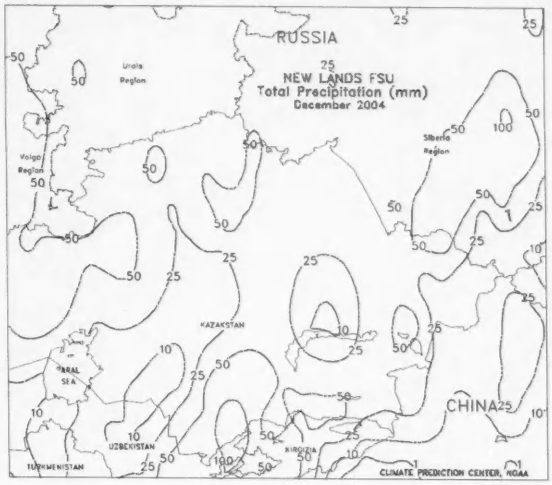


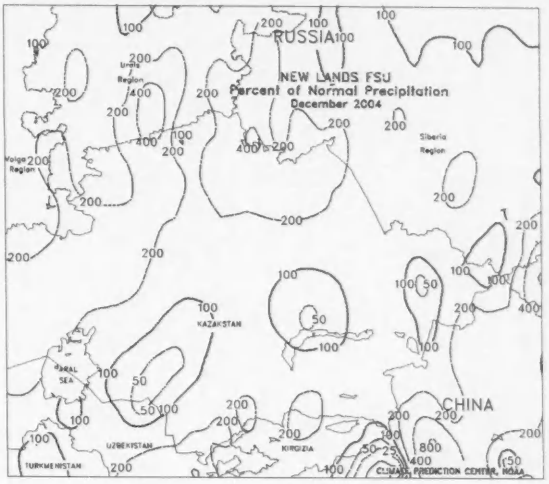
FSU-WESTERN

The fifth consecutive week of unseasonably mild weather maintained favorable overwintering conditions for winter grains in Russia, Ukraine, and Belarus, where weekly temperatures averaged 2 to 7 degrees C above normal. Light rain (5-15 mm or more) fell in major winter wheat producing areas of Ukraine and the Southern Region in Russia, where a lack of snow cover has left wheat areas exposed to potential weather extremes. A mixture of rain and snow (5-25 mm of liquid equivalent) fell from Belarus eastward across the Central and Volga Regions in Russia. Extreme maximum temperatures ranged from 5 to 13 degrees C in eastern Ukraine and the southern half of the Southern Region in Russia, and 1 to 3 degrees C in Belarus, western Ukraine, and the Central Region in Russia. Extreme maximum temperatures remained below freezing in Russia's Volga Region, where winter grains were blanketed by a moderate to deep snow cover. In December, overwintering conditions favored dormant winter grains in Russia, Ukraine, and Belarus. Monthly temperatures averaged 1 to 3 degrees C above normal in most areas. A mixture of rain and snow provided above-normal precipitation from Belarus eastward across most of Russia (Northwest Region, Central Region, Volga Region, and the Southern Region). Below-normal precipitation was observed in Ukraine. Winter grains in the northern half of the Central Region and the Volga Region remained under a moderate to deep snow cover during the month. The snow cover in these areas protected winter grains from a brief period of bitterly cold weather (minimum temperatures ranging from -22 to -15 degrees C) that occurred from December 15-16, 2004. Farther south, although winter wheat areas in Ukraine and southern Russia remained snow free during most of the month, temperatures did not fall low enough to threaten crops.

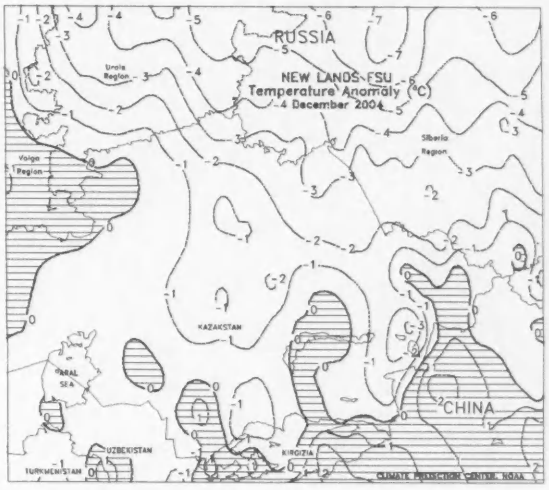





RUSSIA
NEW LANDS FSU
Total Precipitation (mm)
December 2004
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

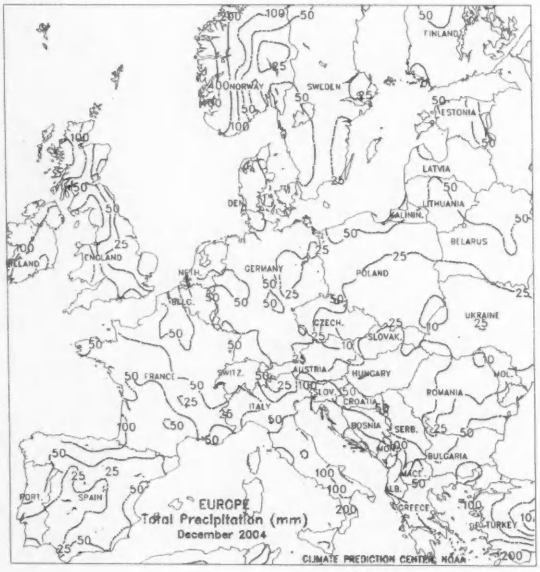

RUSSIA
NEW LANDS FSU
Percent of Normal Precipitation
December 2004
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

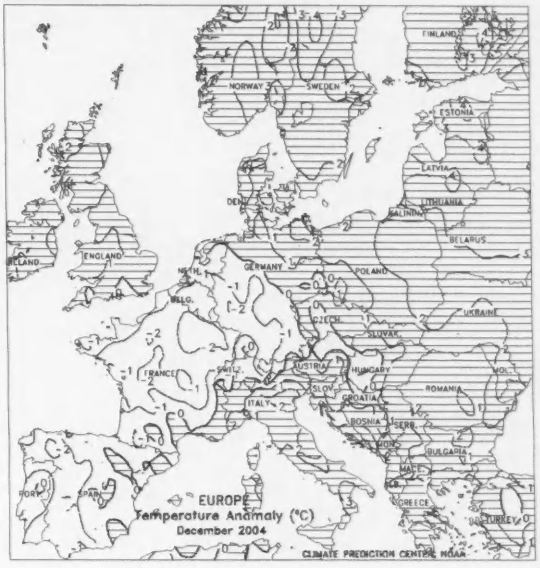
RUSSIA
NEW LANDS FSU
Average Temperature (°C)
December 2004
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

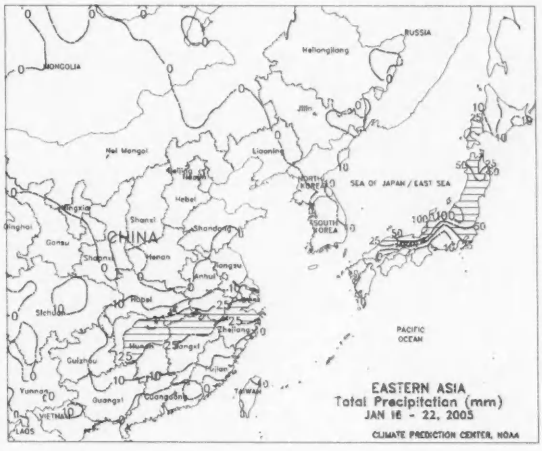

RUSSIA
NEW LANDS FSU
Temperature Anomaly (°C)
December 2004
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

EUROPE

Following last week's relatively light rain and snow, more substantial precipitation (generally 10-50 mm) fell across much of western, northern, and south-central Europe. The highest precipitation (25-50 mm, locally more than 75 mm) fell across the Benelux countries, Germany, the Czech Republic, and Slovakia, maintaining moisture supplies for dormant winter grains and oilseeds. In contrast, dry weather throughout much of the Iberian Peninsula further reduced soil moisture and irrigation supplies for dormant crops in the north and slowly developing winter grains in the south. Mostly dry weather prevailed across much of southeastern Europe as well, where a protective snow cover would be welcomed to protect crops from potentially cold weather. At the end of the week, snow cover was primarily limited to portions of north-central and northeastern Europe, leaving crops elsewhere in Europe vulnerable to potential winter kill. Nevertheless, temperatures throughout much of Europe averaged about 1 to 3 degrees C above normal, providing favorable overwintering conditions for winter crops. Across most of Europe, mostly drier weather prevailed during the first half of December, but widespread precipitation during the second half of the month increased moisture supplies for spring growth of currently dormant winter grains and oilseeds. Across the Mediterranean Region, frequent storms produced above-normal rainfall, boosting soil moisture for winter crops in northern and eastern Spain, Italy, and the Balkans. Dryness, however, reduced soil moisture for winter grain establishment in central and southern Spain and Portugal.

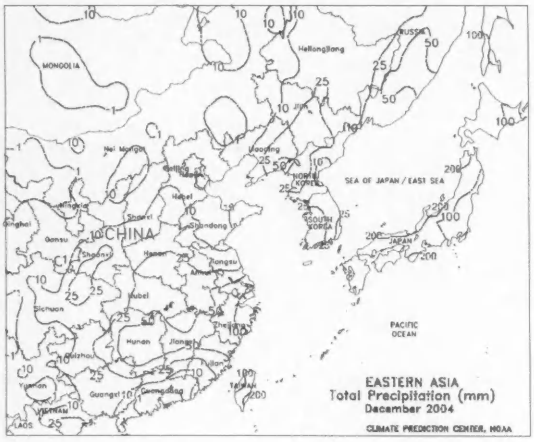


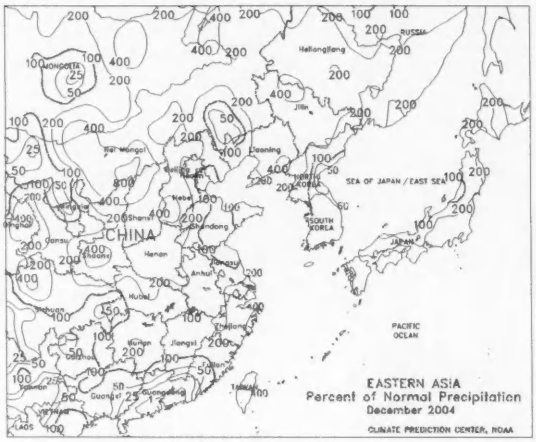


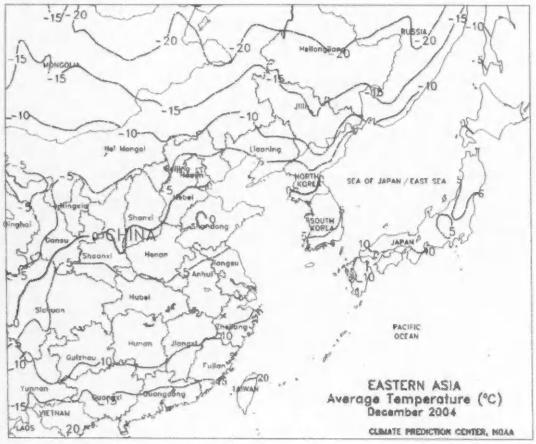


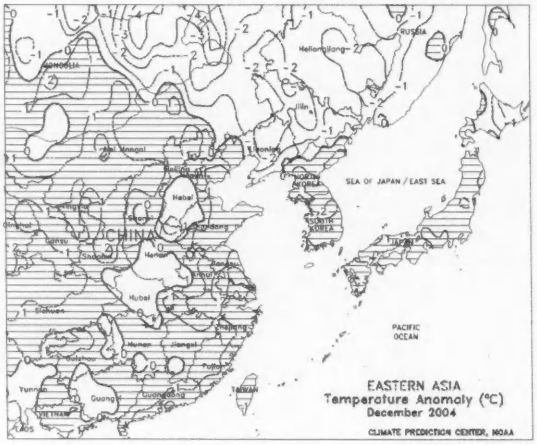
EASTERN ASIA

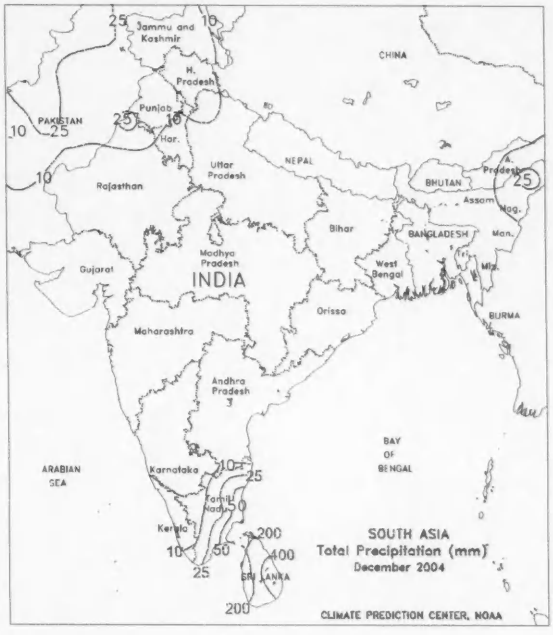
Near normal temperatures prevailed throughout most of China, with minimum temperatures between -10 and -5 degrees C in major winter wheat areas. Snow cover continued to be non-existent, leaving crops exposed to potentially cold outbreaks. Unseasonably heavy showers (10-50 mm) continued to boost soil moisture for winter rapeseed south of the Yangtze Valley. Seasonably dry weather prevailed on the Korean peninsula, while heavy showers likely caused some local flooding in Honshu, Japan. In December, light precipitation provided a protective snow cover for dormant winter wheat on the North China Plain. Above normal rainfall south of the Yangtze Valley increased moisture supplies for winter rapeseed. Although temperatures averaged near normal throughout China, a cold snap brought bitterly cold weather to the North China Plain at the end of the month. Unseasonable wetness persisted over Japan.

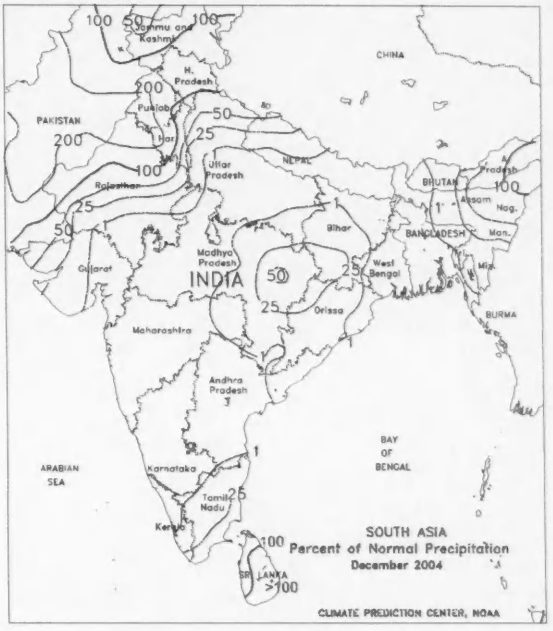

EASTERN ASIA
Total Precipitation (mm)
December 2004
CLIMATE PREDICTION CENTER, NOAA

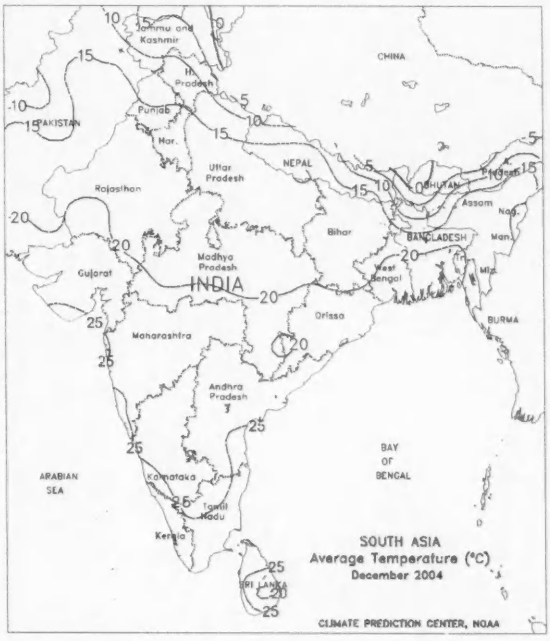

EASTERN ASIA
Percent of Normal Precipitation
December 2004
CLIMATE PREDICTION CENTER, NOAA


EASTERN ASIA
Average Temperature (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA


EASTERN ASIA
Temperature Anomaly (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA


Jammu and Kashmir
H. Pradesh
Punjab
Har.
PAKISTAN
CHINA
NEPAL
Uttar Pradesh
Rajasthan
BHUTAN
Assam
Nag.
Bihar
BANGLADESH
Man.
Madhya Pradesh
Gujarat
INDIA
West Bengal
Mizo.
Orissa
BURMA
Maharashtra
Andhra Pradesh
BAY OF BENGAL
ARABIAN SEA
Karnataka
Tamil Nadu
Kerala
SRI LANKA
SOUTH ASIA
Total Precipitation (mm)
December 2004
CLIMATE PREDICTION CENTER, NOAA


Jammu and Kashmir
H. Pradesh
Punjab
Har.
PAKISTAN
CHINA
NEPAL
Uttar Pradesh
Rajasthan
BHUTAN
Assam
Nag.
Bihar
BANGLADESH
Man.
Madhya Pradesh
Gujarat
INDIA
West Bengal
Mizo.
Orissa
BURMA
Maharashtra
Andhra Pradesh
BAY OF BENGAL
ARABIAN SEA
Karnataka
Tamil Nadu
Kerala
SRI LANKA
SOUTH ASIA
Percent of Normal Precipitation
December 2004
CLIMATE PREDICTION CENTER, NOAA


Jammu and Kashmir
H. Pradesh
Punjab
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PAKISTAN
CHINA
NEPAL
Uttar Pradesh
Rajasthan
BHUTAN
Assam
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Bihar
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INDIA
West Bengal
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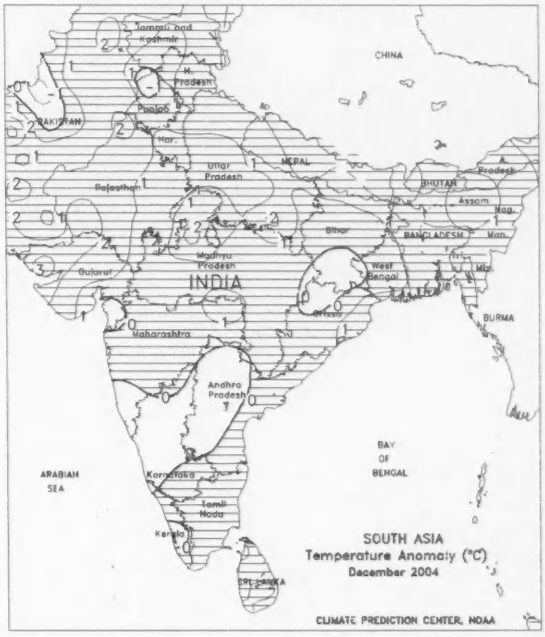
Orissa
BURMA
Maharashtra
Andhra Pradesh
BAY OF BENGAL
ARABIAN SEA
Karnataka
Tamil Nadu
Kerala
SRI LANKA
SOUTH ASIA
Average Temperature (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA


Jammu and Kashmir
H. Pradesh
Punjab
Har.
PAKISTAN
CHINA
NEPAL
Uttar Pradesh
Rajasthan
BHUTAN
Assam
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Bihar
BANGLADESH
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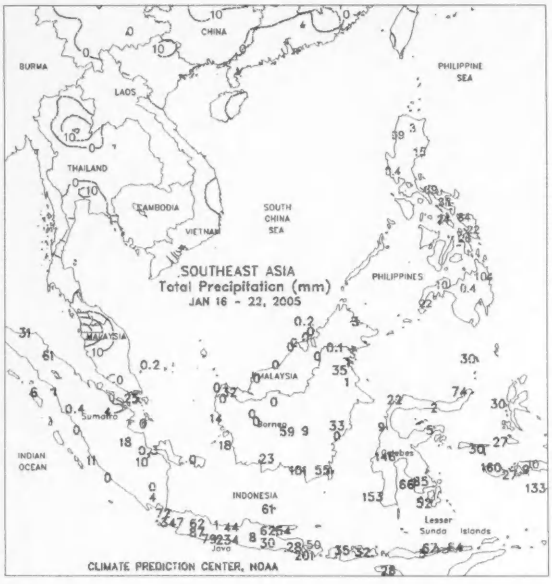
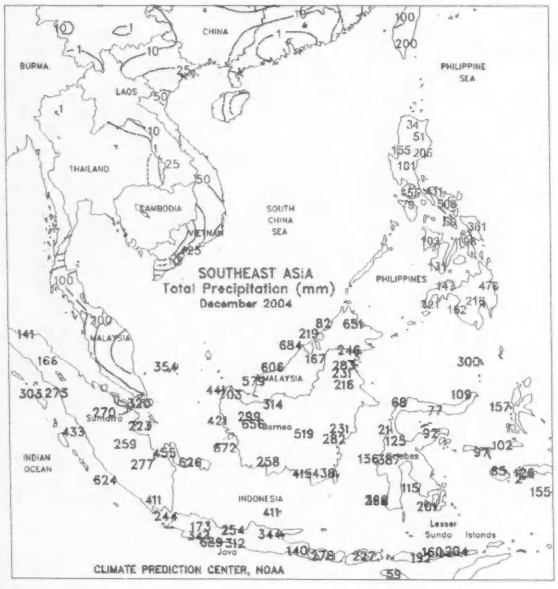
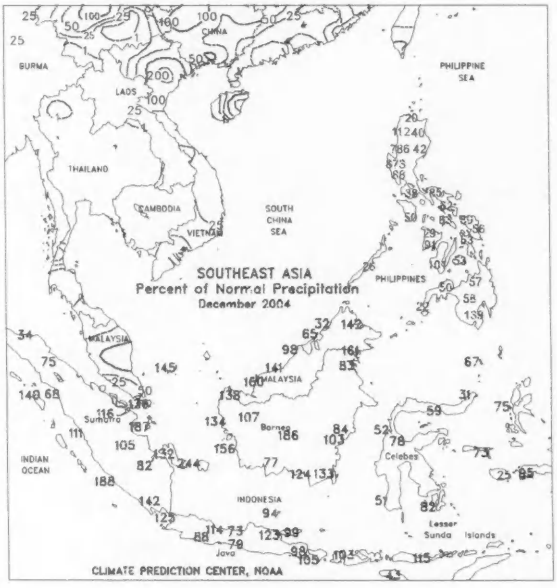
INDIA
West Bengal
Mizo.
Orissa
BURMA
Maharashtra
Andhra Pradesh
BAY OF BENGAL
ARABIAN SEA
Karnataka
Tamil Nadu
Kerala
SRI LANKA
SOUTH ASIA
Temperature Anomaly (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA

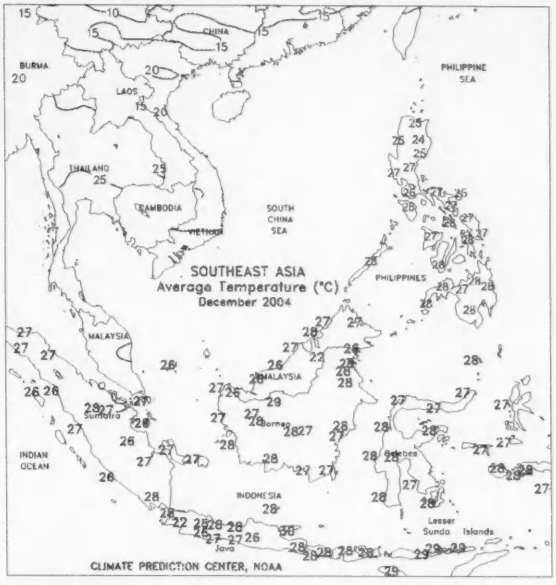


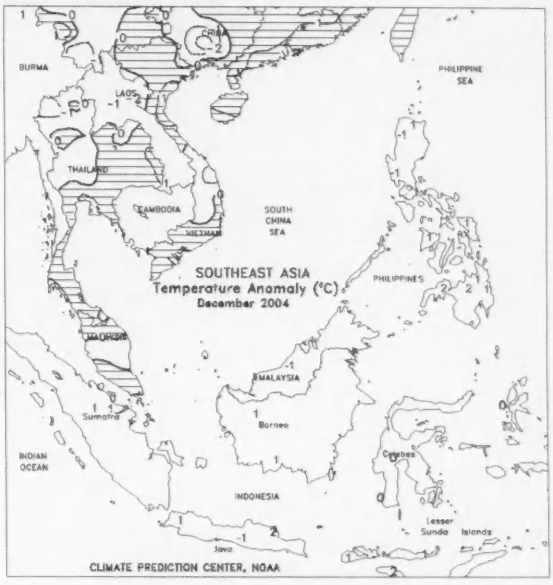
SOUTHEAST ASIA

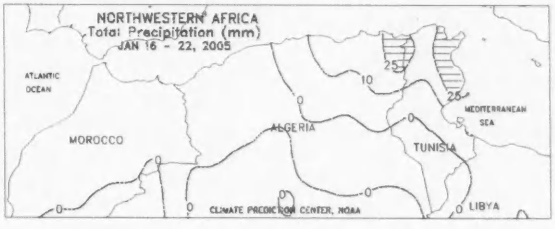
In Indonesia, rice planting should be nearly complete with approximately 10 percent of the crop heading. Heavy showers (25-200 mm) maintained moisture supplies for rice in Java, while dry weather lowered moisture supplies for oil palm in Sumatra and in Malaysia. Seasonable showers (10-25 mm, heavier amounts in the east) maintained irrigation supplies for dry season crops in the Philippines, while seasonably dry weather prevailed in Indochina. In December, near-normal showers prevailed in Indonesia, maintaining moisture supplies for oil palm and vegetative rice. The deadly tsunami that struck southern Thailand and northern Sumatra (Indonesia) caused massive coastal damage, but did not have a significant impact on major agricultural areas, which are located farther inland. Persistent showers in central Vietnam slowed coffee harvesting.





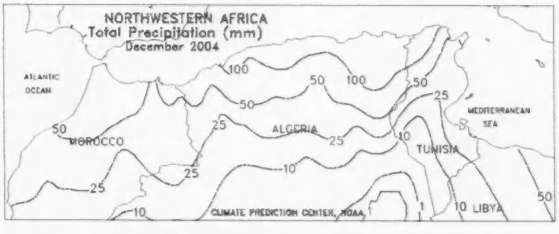


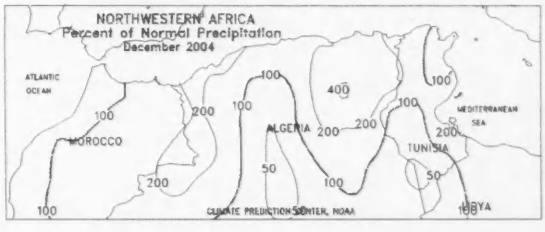


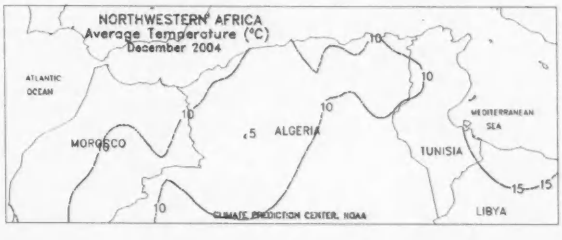


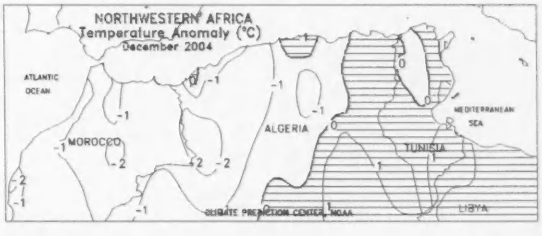
NORTHWESTERN AFRICA

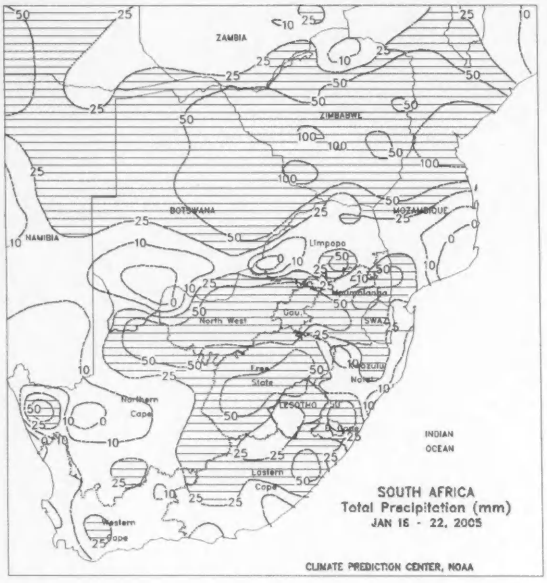
Dry weather continued to cause concerns for winter wheat development in Morocco. Little or no rain has fallen since the end of December in Morocco and parts of Algeria. Additionally, maximum temperatures near 30 degrees C increased evaporative losses. In eastern Algeria and Tunisia, light to moderate showers (10-25 mm, locally more) maintained adequate soil moisture for winter wheat development. Across northern Morocco, Algeria, and Tunisia, widespread, near- to above-normal December rainfall boosted topsoil moisture for winter grain emergence. In southern Morocco, a drying trend since early December raised concerns about a lack of topsoil moisture for winter grain establishment.





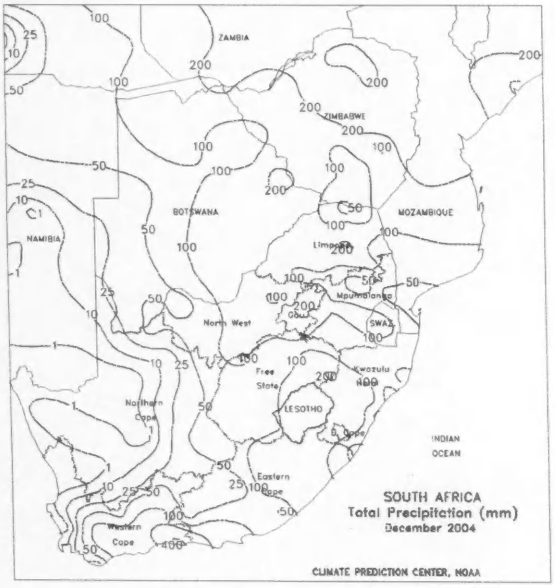


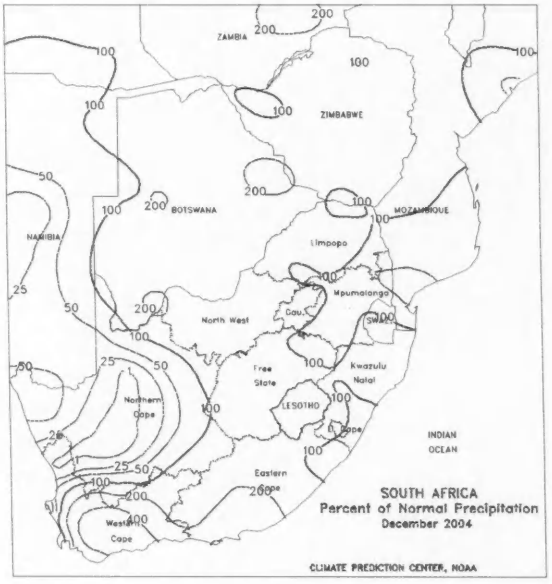


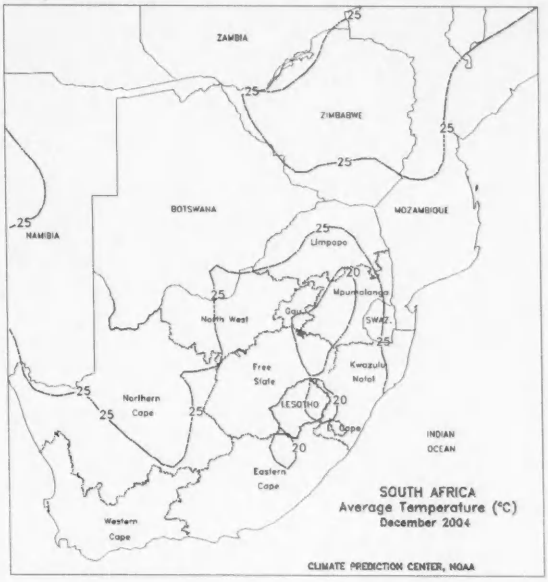


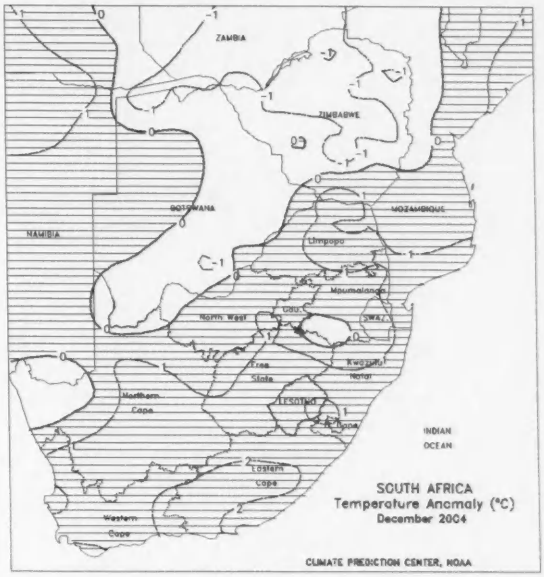
SOUTH AFRICA

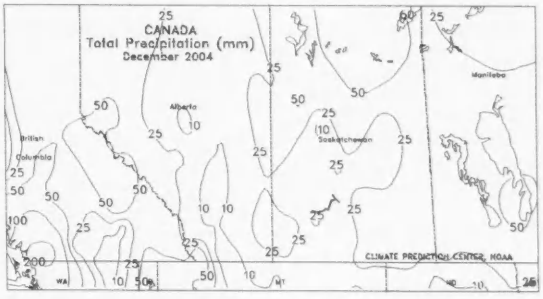
Moderate to heavy showers (25-50 mm or more) continued across the corn belt, providing additional timely moisture for crops in or approaching reproductive stages of development. In addition, below normal temperatures (with highs generally in the middle and upper 20s degrees C) reduced crop moisture demands and moisture losses through evapotranspiration. The heaviest rain (greater than 50 mm) was concentrated in commercial growing areas of North West and Free State, giving those areas their highest recorded rainfall of the season. Elsewhere, beneficial rain (10-25 mm or more) fell in most sugarcane areas of southeastern Mpumalanga and KwaZulu-Natal, and increased in coverage to include many previously dry locations in the Cape Provinces, helping to reduce crop irrigation requirements. In December, mid-month showers improved conditions for germination and establishment of corn and other summer crops. However, a quick return to unseasonable warmth and dryness renewed concern in the western corn belt for emerging to vegetative summer crops. Near-to above-normal temperatures maintained high crop moisture demands throughout the month.

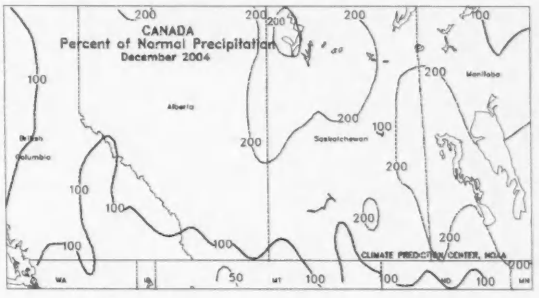


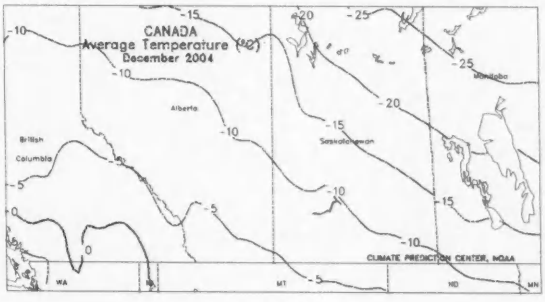


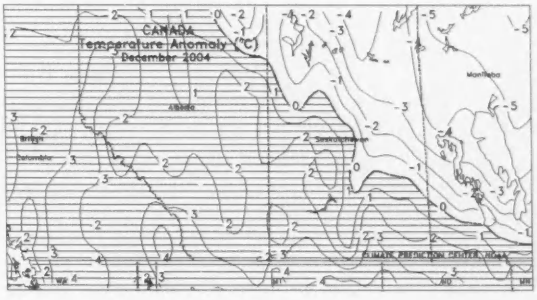

ZAMBIA
ZIMBABWE
BOTSWANA
MOZAMBIQUE
NAMIBIA
Limpopo
Mpumalanga
North West
Gau
SWAZ
Free State
Kwazulu Natal
LESOTHO
Northern Cape
Eastern Cape
Western Cape
INDIAN OCEAN
SOUTH AFRICA
Average Temperature (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA

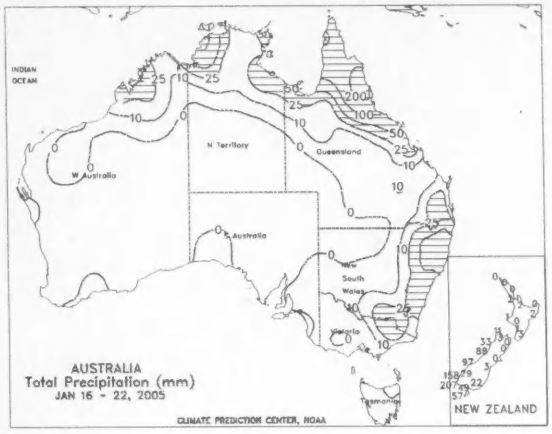

ZAMBIA
ZIMBABWE
BOTSWANA
MOZAMBIQUE
NAMIBIA
Limpopo
Mpumalanga
North West
Free State
Kwazulu Natal
Northern Cape
LESOTHO
Eastern Cape
Western Cape
INDIAN OCEAN
SOUTH AFRICA
Temperature Anomaly (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA


CANADA
Total Precipitation (mm)
December 2004
Alberta
British Columbia
Saskatchewan
Manitoba
CLIMATE PREDICTION CENTER, NOAA


CANADA
Percent of Normal Precipitation
December 2004
Alberta
Saskatchewan
Manitoba
CLIMATE PREDICTION CENTER, NOAA

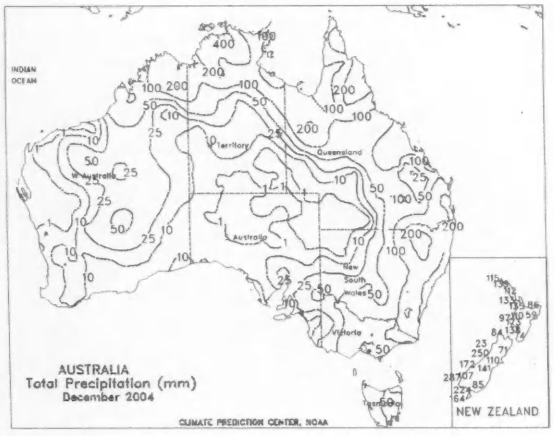

CANADA
Average Temperature (°C)
December 2004
Alberta
British Columbia
Saskatchewan
Manitoba
CLIMATE PREDICTION CENTER, NOAA

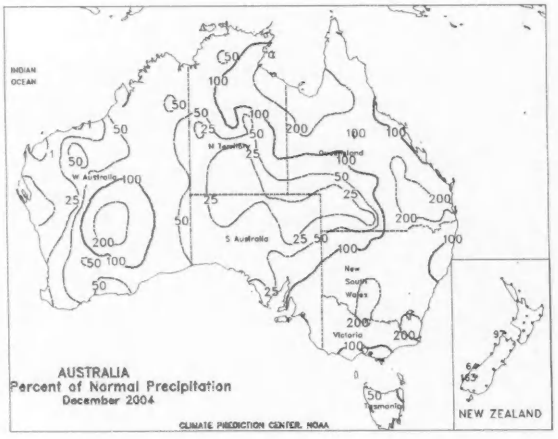

CANADA
Temperature Anomaly (°C)
December 2004
Alberta
Saskatchewan
Manitoba
CLIMATE PREDICTION CENTER, NOAA

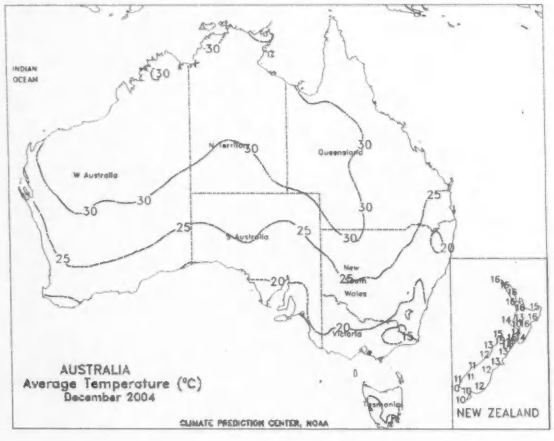


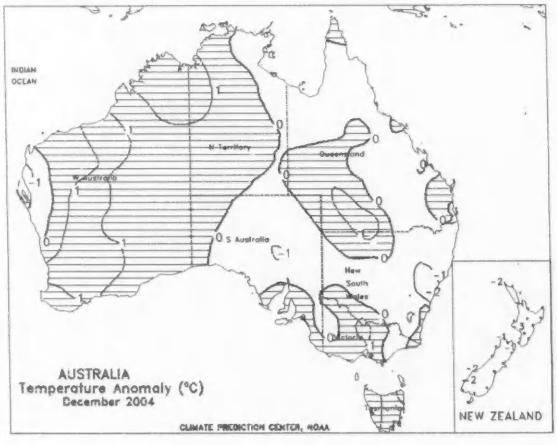
AUSTRALIA

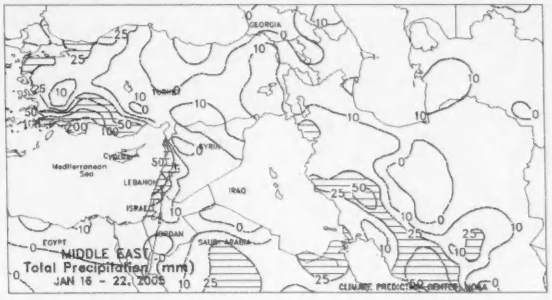
Following last week's dry weather, showers (4-40 mm, locally more) returned to southern Queensland and northern New South Wales, benefiting summer crops. The rainfall maintained moisture supplies for cotton and sorghum, generally in the vegetative to early reproductive phases of development. Temperatures in major summer crop areas averaged 2 to 3 degrees C above normal, increasing evaporative losses, but hastening crop development. In December, near- to above-normal rainfall continued across eastern Australia, maintaining adequate moisture supplies for irrigated summer crops and abundant topsoil moisture for dryland crops. In southeastern Australia, the wetness caused some delays in fieldwork, but periods of dry weather allowed winter wheat and barley harvesting to progress toward completion. In Western Australia, mostly dry weather favored rapid winter grain harvesting.





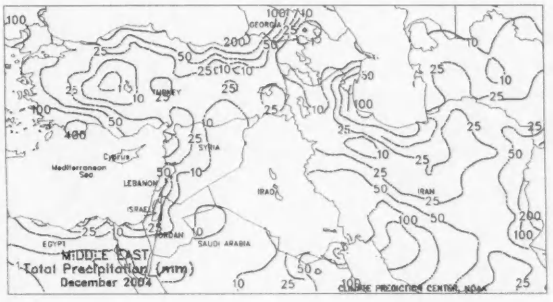


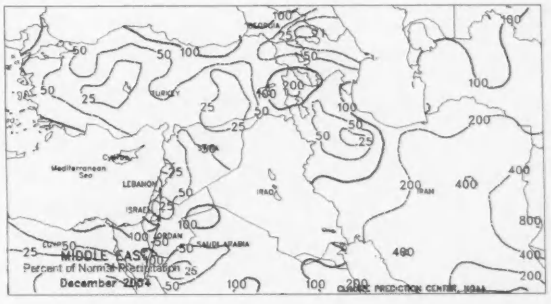


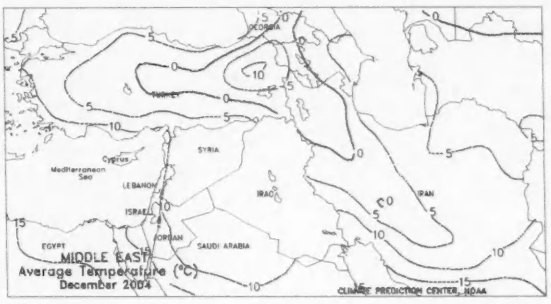


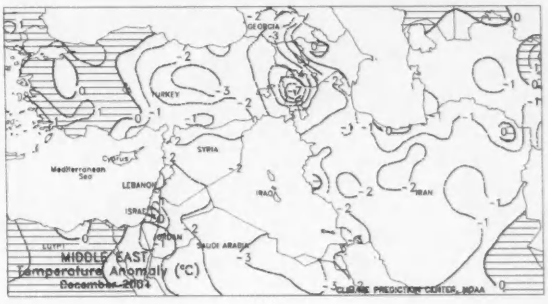
MIDDLE EAST

A winter storm brought beneficial moisture (5-25 mm) to wheat areas of western Iran, increasing the distribution and depth of that region's protective snow cover. In contrast, unseasonably mild weather virtually eliminated snow cover in crop areas of eastern and southern Iran. Mild, dry weather also eroded snow cover in central and southeastern Turkey, leaving crops in those areas vulnerable to potential outbreaks of bitter cold. Rain showers (5-25 mm or more) boosted moisture reserves in western Turkey, but heavy showers (greater than 100 mm) likely caused some localized flooding along the southwestern coast. In December, unseasonably cold weather kept winter grains dormant across central Turkey. Below-normal precipitation reduced moisture supplies for spring crop growth, but snow cover was present on the coldest days of the month, protecting Anatolian crops from winterkill. In contrast, near- to above-normal precipitation boosted moisture supplies in winter wheat areas of western Iran, although portions of the northwest remained snow free during a late-month outbreak of bitter cold, increasing the potential for winterkill.

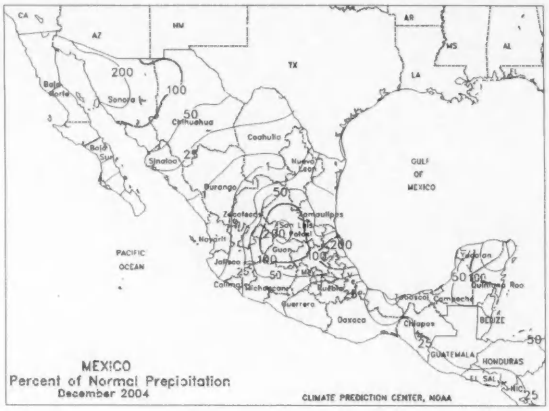


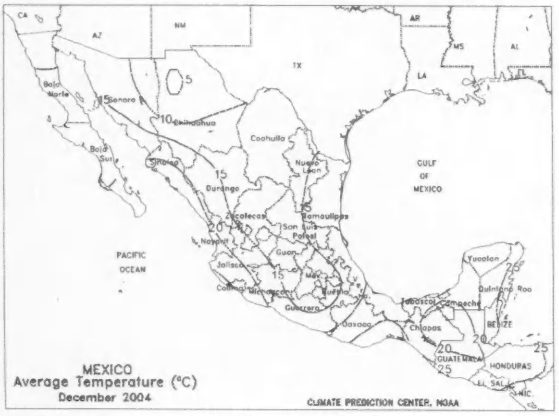


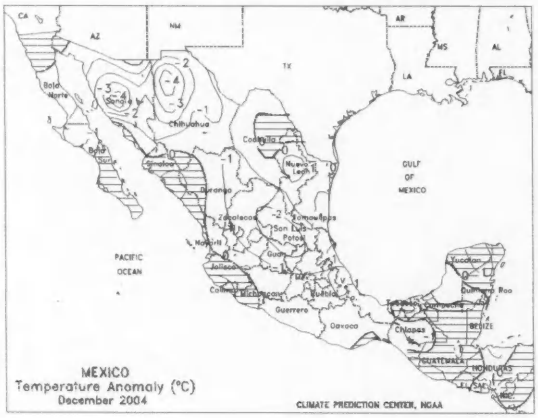




MEXICO
Total Precipitation (mm)
December 2004
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
BELIZE
GUATEMALA
HONDURAS

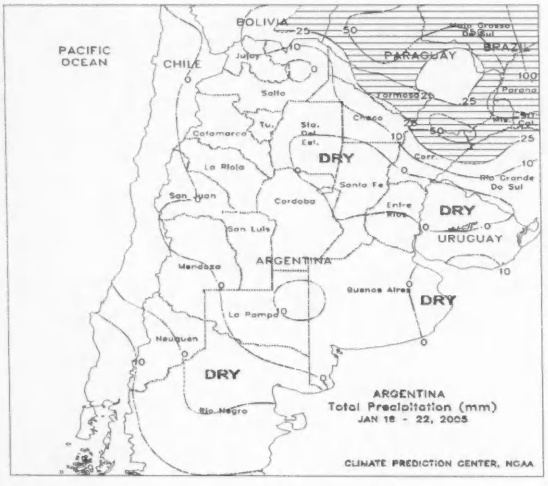

MEXICO
Percent of Normal Precipitation
December 2004
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
BELIZE
GUATEMALA
HONDURAS


MEXICO
Average Temperature (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
BELIZE
GUATEMALA
HONDURAS


MEXICO
Temperature Anomaly (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
BELIZE
GUATEMALA
HONDURAS

BRAZIL

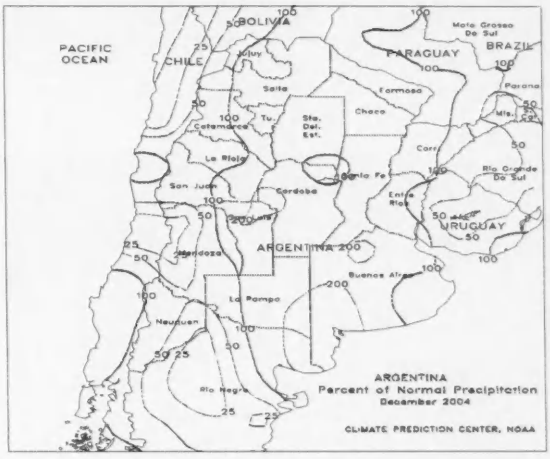
Following early-week showers (10-25 mm or more), drier-than-normal weather, accompanied by gradual warming and occasional outbreaks of summer heat (highs greater than 35 degrees C by weeks end), returned to important soybean and corn areas of Rio Grande do Sul, renewing concerns for potential stress on crops advancing through the reproductive stages of development. This region is characterized by rapidly draining soils which do not retain moisture well during periods of unseasonable warmth and dryness. However, rain increased elsewhere in southern Brazil, and moderate to heavy showers (50-100 mm or more) covered most of Parana, Sao Paulo, and Mato Grosso do Sul, boosting moisture for vegetative to reproductive soybeans and other summer crops. Moderate to heavy rain (50-100 mm or more) covered most major soybean areas of the center-west and northeastern regions, maintaining mostly favorable moisture reserves but possibly hampering seasonal fieldwork, including efforts to combat disease. Near- to above-normal temperatures in these areas promoted rapid summer crop development. In December, a drying trend reduced moisture for corn and soybeans in southern growing areas, most notably Parana and Rio Grande do Sul. Conditions remained favorable in most other Brazilian soybean areas, and harvesting of very early planted beans was reported in Mato Grosso. However, rainfall was below normal for the month in many northeastern growing areas, including western Bahia.



ARGENTINA

Mostly dry weather prevailed throughout the main summer crop areas of central Argentina, spurring development of vegetative to filling crops after several weeks of beneficial rainfall. Temperatures averaged near to below normal, with highs generally in the lower 30s degrees C in corn and soybean areas that had recently been subject to stressful heat. However, subsoil moisture levels remained below average for this time of year in growing areas of east-central Argentina (Entre Rios and neighboring locations of Santa Fe), and more rain will be needed to support normal crop development. Farther north, showers (10-25 mm or more) maintained moisture levels in the main cotton growing areas, with the heaviest rain centered over Formosa, but dry weather dominated minor growing areas to the south and west. In December, near- to above-normal rainfall maintained mostly favorable moisture levels for summer crop establishment but slowed winter wheat harvesting. A large portion of the southern wheat belt (eastern La Pampa and southwestern Buenos Aires) recorded twice the normal amount of December rainfall, with several locations reporting more than 200 mm for the month. Several consecutive weeks of locally heavy rain also kept fields saturated in the northern cotton zone, but drier weather developed toward the end of the month, promoting crop development and helping to alleviate localized flooding.

PACIFIC OCEAN
CHILE
BOLIVIA
PARAGUAY
BRAZIL
URUGUAY
ARGENTINA
Mato Grosso Do Sul
Rio Grande Do Sul
Jujuy
Salta
Formosa
Chaco
Tucuman
Sgo. Del. Est.
Catamarca
La Rioja
San Juan
Cordoba
Santa Fe
Entre Rios
Corr.
San Luis
Mendoza
Buenos Aires
La Pampa
Neuquen
Rio Negro
ARGENTINA
Total Precipitation (mm)
December 2004
CLIMATE PREDICTION CENTER, NOAA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BRAZIL
URUGUAY
ARGENTINA
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Salta
Formosa
Chaco
Tucuman
Sgo. Del. Est.
Catamarca
La Rioja
San Juan
Cordoba
Santa Fe
Entre Rios
Corr.
San Luis
Mendoza
Buenos Aires
La Pampa
Neuquen
Rio Negro
ARGENTINA
Percent of Normal Precipitation
December 2004
CLIMATE PREDICTION CENTER, NOAA

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BOLIVIA
PARAGUAY
BRAZIL
URUGUAY
ARGENTINA
Mato Grosso Do Sul
Rio Grande Do Sul
Jujuy
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Catamarca
La Rioja
San Juan
Cordoba
Santa Fe
Entre Rios
Corr.
San Luis
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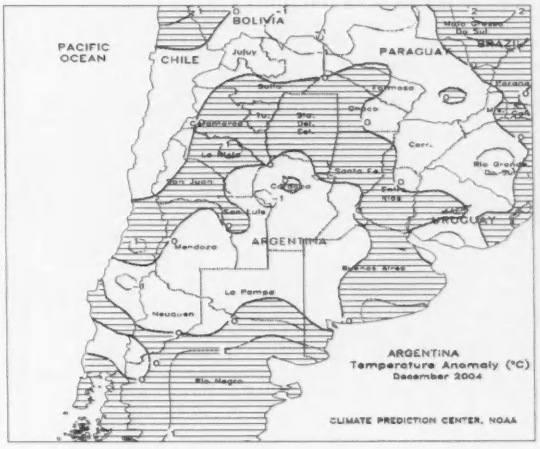
La Pampa
Neuquen
Rio Negro
ARGENTINA
Average Temperature (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA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Cordoba
Santa Fe
Entre Rios
Corr.
San Luis
Mendoza
Buenos Aires
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Neuquen
Rio Negro
ARGENTINA
Temperature Anomaly (°C)
December 2004
CLIMATE PREDICTION CENTER, NOAA

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